Name	Dr Chetankumar Ramanlal Patel
Email	crp@ced.svnit.ac.in, chetanrpatel@rediffmail.com
DOB	06/06/1980
Present Position	Assistant Professor in Civil Engineering Department, SVNIT Surat

Educational Qualifications

- Ph.D., Sardar Vallbhbhai National Institute of Technology (SVNIT), Surat) -09/03/2016
- M. Tech Planning ,Sardar Vallbhbhai National Institute of Technology (SVNIT), Surat -2008
- B.E Civil Engineering, Sardar Vallbhbhai Regional Engineering College(SVREC), VNSGU -2001

Academic Affiliation

- Presently working as an **Assistant Professor** in Civil Engineering Department since May 2009, and **Sectional Head**, P G Centre in Urban Planning Since August 2017.
- Has worked as a lecturer at C.K. Pithawalla College of Engg. & Tech, Surat from 12/07/2004 to 04/05/2009 and from 01/10/2003 to 14/06/2004 (5 Yrs 5 Months)
- Served as Visiting Faculty in Civil Engineering Department SVNIT from 01/09/2003 to 30/09/2003 (1 Month)
- Is a Junior Engineer at Gammon India, Mumbai posted at Bhubaneswar NH5 road project and Kutch chimney from 05/11/2001 31/08/2003 (1 Yr 9 Months)
- Also worked as a site engineer at Vatica Township Surat from01/09/2001 to 31/10/2001 (2 Months)

Professional Affiliation

- Chairman, Indian Society of Geomatics (ISG) Surat Local Chapter.
- Reviewer, Journal of Current Science
- Associate member, Institute of Town Planner India- New Delhi.
- Life Member, Indian Society of Geomatics
- Life Member, Indian Road Congress- New Delhi LM 36806
- Life Member, Institute of Urban Transportation New Delhi -M -1114
- Life Member, Indian Geotechnical Society- New Delhi LM3282
- Life Member, Indian Society for Technical Education New Delhi (ISTE) LM 54342
- Reviewer for "Engineering Drawing", section, Mc Graw Hill Publication.
- Member, Interview Committee for Section of Assistant Professor at Bhagvan Mahavir College of Engineering, Surat
- Member, Interview Committee for Section of Assistant Professor at SASIT, Surat.

Area Of Research

- Urban Planning
- Geospatial Technology
- Urban Transportation Planning
- Urban Housing
- Urban Governance and Management
- Traffic Flow Modelling
- Climate Change

Current Research

- Active relation of Physical planning Climate change and Urban Sprawl in Indian context
- Housing Redevelopment Policy to defragment urban slums: an initiative for Housing Stock

- Urban Fright Trip Generation Modelling with special reference to Urban logistic sprawl
- Public Bicycle Sharing System: an alternative Sustainable mode of transport in large and medium cities of India.
- Quantification of Urban Sprawl and land use

Awards and Honors

- Recipient of National Award for the Best M. Tech Thesis, Civil Engineering-2008 (First Prize) by ISTE, New Delhi.
- Recipient of National Award for the Guiding Best M. Tech Thesis in Civil Engineering-2011 (Second Prize) by ISTE, New Delhi.
- Awarded Runner-up (Second Position)CII SIS-Tech Guru Award 2017 by CII and Sagar Group of Institutions, Bhopal, 6th March 2017.
- Received Specially Recognised Paper award in Traffic and Transportation Sessions in National conference New Horizon of Civil Engineering organised by SCET, Surat 2017.
- Recipient of token of appreciation for NOSPlan during XVI Annual Convention hosted by SPA, Bhopal.
- Secured First Prize in "Best Governance" elocution competition held by SVNIT Surat.
- Secured Second Prize in Hindi Pakhawada-2011 Quiz competition, SVNIT Surat

Consultancy Assignments

- Quantity Estimation for the Executed Work Based on Joint Measurement for Clarifier in Plant area at NTPC, KGPP.NTPC Ltd, Surat
- Establishing Benchmark near Surat Airport and Palsana Road for DREAM City Project. Gujarat Infrastructure Development Board.
- Feasibility Study for the Setting Up of Truck Parking Terminal at Kandla, WAPCOS Limited.
- 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 to Breadliner circle- Soham circle uptoBhimrad Village, Surat Municipal Corporation, Surat.
- Consultancy Services for Preparing design, Estimates, Tender etc. of construction of cement concrete road pavement and allied works on internal roads of various private societies-road within Surat city limit, Surat Municipal Corporation, Surat.
- Providing Advisory Services Including Preparing a detailed Manual/Guideline for road works within Surat City. Surat Municipal Corporation, Surat.
- Proof Checking and Third Party Inspection (TPI) services for Construction of jetty on bank of river Tapi at Katargam water works. Surat Municipal Corporation, Surat.
- Consultancy Services for Preparation of Development Plan for Smart Villages under Surat District. District Panchayat, Surat
- To Prepare cost estimate & tender document for removal of island in river Tapi from weir cum causeway to Valak.Surat Municipal Corporation, Surat
- Technical Assistance to SMC for various works of Carpeting/Re-carpeting work in SMC area. , Surat Municipal Corporation, Surat.

Expert Talks

- Integration of NMT and PT for Sustainability, MANIT Bhopal, February 2017
- Role of IoT and Bigdata in Urban Planning, Truba Institute, Bhopal, February 2017Advances in Traffic Engineering, Parul University, 2017
- Planning and Design of Highway : An Indian Perspective, Parul University, 2017
- Fundamentals of ITS (Intelligent Transport System) SISTech, Bhopal, 2017
- Application of GIS in ITS for future Transportation Parul University, 2016
- Issues and Challenges in Traffic Flow Modelling Parul University, 2016
- Application of Statistics with ANNat SVNIT, Surat, 2013
- GIS application in Disaster Management CED, College of Engineering Udaipur, 2012
- Urban Transportation System Planning, Faculty of Engineering-CGPIT -Uka Tarsadia

University,2012

- Intelligent Transportation System at SVNIT, Surat, 2010
- Sustainable Planning Applicationat SVNIT, Surat, 2009
- Advance Research Techniques In Urban Planning And Management at SVNIT, Surat, 2009
- Fundamentals of ANN at SVNIT, Surat, 2009
- Carbon Creditat SVNIT, Surat, 2009
- GIS Application To Planningat SVNIT, Surat, 2009

Research Publications

International Journal

- Patel, C. and Joshi, G., 2015. Equivalency factor using optimization for Indian mixed traffic condition. *International Journal for Traffic and Transport Engineering (IJTTE)*, 5(2), pp. 210-224.
- Patel, C. and Joshi, G., 2014. Mixed Traffic Speed–Flow Behavior under Influence of Road Side Friction and Non-Motorized Vehicles: A Comparative Study of Arterial Roads in India. *International Journal of Civil and Environmental Engineering*, 8(11), pp.1203-1209
- Patel, C. and Joshi, G., 2012. Capacity and LOS for urban arterial road in Indian mixed traffic condition. *Journal of Procedia-Social and Behavioral Sciences Transport Research*, 48, pp.527-534.
- Patel, R., Patel, C. and Joshi, G. (2012). Estimation of Macroscopic stream parameters for performance evaluation of undivided collector street in India. *International Journal of Scientific Computing*, 6(2), pp.368-370.

International Conference / Seminar

- Patel, C. and Patel, S., 2018. An Infrastructure review of Public Bicycle Sharing System (PBSS): Global and Indian scenario. In: *First International Conference on Innovations in Infrastructure (ICIIF 2018)*. Ahmedabad, India. 18-19 May 2018.
- Patel, C. and Patel, S., 2018. Public Bike Sharing System: An Initiative for Sustainable Mode of Transportation in Indian Context. In: *International Conference on Recent Advance in Transport Infrastructure (RAT 2018), Bhopal, Madhya Pradesh*, 13-14 February 2018.
- Patel, C. and Dhonde, B., 2018. A Review on Urban Freight Transport Studies for Characterizing and Modelling of Freight Trips. In: *International Conference on Recent Advance in Transport Infrastructure (RAT 2018), Bhopal, Madhya Pradesh*, 13-14 February 2018.
- Patel, C. and Patel, S., 2017. Public Bike Sharing: An Approach towards Sustainable Transportation a Case Study of CBD in Indian Context. In: *The Urban Mobility India (UMI) Conference and Expo.* Hyderabad, India. 4-6 November 2017.
- Patel, C., Karmadwala, C. and Damodariya, S., 2017. Key Factor's for defining travel time reliability on urban arterial under mixed traffic condition. In: *ASCE International Civil Engineering Symposium (ICES'17)*, VIT. Chennai, India, 16-19 March 2017.
- Patel, C. and Reddy, V., 2014. Dynamic Equivalency Factor of Mixed Traffic Stream for Urban Arterial Mid blocks. In: *11thTPMDC International Conference on Transportation Planning and Implementation Methodologies for Developing Countries, IIT Bombay*, Mumbai, India. 10-12 December 2014.
- Patel, C. and Joshi, G., 2014. Mixed Traffic Speed–Flow Behavior under Influence of Road Side Friction and Non-Motorized Vehicles: A Comparative Study of Arterial Roads in India. In: *ICTTE* 2014: 12thInternational Conference on Traffic and Transportation Engineering. Venice, Italy. 13-14 November 2014.
- Patel, C. and Jethani, M., 2014. An Integrated GIS approach for optimizing the spatial location of fire station: Surat India. In: *ICES'14: International Civil Engineering Symposium*. Vellore. 14-16 March 2014.
- Patel, C., Joshi. G and Patel, R., 2012. Estimation of Macroscopic stream parameters for performance evaluation of undivided collector street in India. In: *International conference on innovative Technologies in Engineering and Science -2012 (ITES-2012)*. Rajkot, Gujarat. 11-23 December 2012.
- Patel, C., Tailor R. and Patel, S., 2012. Accessibility analysis for social infrastructure using GIS: a case study of Surat city. In: *2nd International Conference -Workshop on Sustainable Architecture & Urban Design*. Penang, Malaysia. 3-5 March 2012.

- Patel, C. and Patel, D., 2012. Prediction of the Remaining Duration of the Project during Execution of the Project. In: 2nd International Conference - Workshop on Sustainable Architecture & Urban Design. Penang, Malaysia. 3-5 March 2012.
- Patel, C. and Tailor, R., 2011. Demand estimation and parking characteristic of the Commercial area: a case study of Surat city. In: *International Conference on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011)*. Calicut, India. 22-24 June 2011.
- Patel, C. and Joshi, G., 2010. Development of Weighted Average Delay Model for Signalized Urban Intersection in Indian Context. In: *International Workshop on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2010)*. Mumbai, India. 15-17 December 2010.
- Patel, C. and Tailor, R.,2010. Traffic Behavior Study at Ring Road Area in Surat City. In: *International Conference on Developments in Road Transportation (DRT-2010)*. Rourkela, India. 8-10 October 2010.
- Patel, C. and Pastagia, D., 2010. Revenue Loss at Intersection a Case Study of Surat, Gujarat. In: *International Conference on Developments in Road Transportation (DRT-2010).* Rourkela, India. 8-10 October 2010.
- Patel, C., 2010. ANN Perspective in Traffic Engineering. In: International Conference on Developments in Road Transportation (DRT-2010). Rourkela, India. October 8-10 2010.
- Patel, C., 2010. Planning For NMT: A Case Study of Surat City. In: *International Conference on Developments in Road Transportation (DRT-2010)*. Rourkela, India. October 8-10 2010.
- Patel, C., Tailor, R. and Pastagia, D., 2010. Vulnerable Road Users: An Issue for Sustainable Development. In: *International Congress of Environmental Research (ICER-10)*. Reduit, Mauritius. 16-18 September 2010.
- Patel, C., 2010. Green Technology for Sustainable Development. In: *International Congress of Environmental Research (ICER-10)*. Reduit, Mauritius. 16-18 September 2010.
- Patel, C., 2010. Revenue loss and GHG emission at intersection a case study of Surat, Gujarat, India. In: *International Congress of Environmental Research (ICER-10)*. Reduit, Mauritius. 16-18 September 2010.
- Patel, C. and Tailor, R., 2010. Measures for Climate Change towards Sustainable Urbanization. In: *International Congress of Environmental Research (ICER-10)*.Reduit, Mauritius. 16-18 September 2010.
- Patel, C., Tailor, R. and Shah, J., 2010. A Role of Business Centre in Traffic Impact: A Case Study of Surat City. In: *International Congress of Environmental Research (ICER-10)*.Reduit, Mauritius. 16-18 September 2010.
- Patel, C., Joshi, G. and Katti, B., 2009. Discharge and Delay Estimation for Unsaturated Signalized Urban Intersection under Mixed Traffic Condition. In: *The 14thHKSTS International Conference*. Hong Kong. 10-12 December 2009.

National Conference / Seminar etc.

- Patel, C.,Karmadwala, C. and Damodariya, S., 2017. Effect of Volume on road side friction: A Case Study of Surat city. In: National Conference on Road Rransport (NCORT-2017). Roorkee, Uttarakhand. 14-15 October 2017.
- Patel, C., Karmadwala, C. and Damodariya, S., 2017. Travel time reliability and variability on an arterial A Case Study of Surat City In: *New Horizon of Civil Engineering (NHCE 2017)*. Surat, Gujarat. 25-26 March 2017.
- Patel, C. and Desai H., 2017. Issues and Challenges in Integrating and Implementing Development Plans in the Era of Big Data. In: 65th National Town and Country Planners Congress of ITPI. Udaipur, Rajasthan. 06-08 January 2017.
- Patel, C., Desai, H. and Kapadia, D., 2016. Redevelopment of Existing Built Up Environment: A Proposal for Karanj Area in Surat City. In: *ITPI West Zone Conference*. Surat, Gujarat. 14th May 2016.
- Patel, C. and Tailor, R., 2015. GIS Based Planning of Social Infrastructure A Case Study of Surat. In: National Symposium on Geomatics for Digital India" and Annual conventions of Indian Society of Geomatics and Indian Society of Remote Sensing. JKLakshmipatUniversity. Jaipur, Rajasthan. 16-18 December 2015.
- Patel, C. and Joshi, G., 2015. Effect of non-motorized traffic on stream speed of urban arterial road in Indian context. In: National Conference And Workshop On Recent Advances In Traffic

Engineering (RATE 15). Surat, Gujarat. 3-4 July 2015.

- Patel, C. and Panchal, U., 2015. Smart Cities: Issues and Challenges in Indian Context. In: First National Conference on Sustainable and Smart Cities (SSC-15). Surat, Gujarat. 10–11 April 2015.
- Patel, C., Joshi, G. and Patel, R., 2015. Mix Traffic Characteristics of Urban Collector Road in Indian Context. In: *National Conference And Workshop On Recent Advances In Traffic Engineering (RATE 12)*. Surat, Gujarat. 07-09 June 2012.
- Patel, C., Siddiqui, A. and Zala, D., 2012. Role of Urban Planner in Disaster Mitigation. In: *ICGS-2015 conference on "Gujarat Model of Governance: Lessons & Future Scope"*. Surat, Gujarat. 25–26 April 2015.
- Patel, C., Joshi, G. and Shah, J., 2012. Effect of Uncontrolled Access and Road Side Activity on Multilane Metropolitan Arterial underMix Traffic Environment. In: *National Conference And Workshop On Recent Advances In Traffic Engineering (RATE 12)*. Surat, Gujarat. 07-09 June 2012.
- Patel, C., Joshi, G. and Bagadiya, M., 2012. Mixed Traffic Lane Choice and Headway Characteristics on Multilane Urban Arterials. In: *National Conference And Workshop On Recent Advances In Traffic Engineering (RATE 12)*. Surat, Gujarat. 07-09 June 2012.
- Patel, C., Joshi, G. and Vyas, M., 2012. Empirical Observation Based Dynamic Characterisation of Mixed Traffic characteristics on Selected Collector Streets of Metropolitan Cities. In: *National Conference And Workshop On Recent Advances In Traffic Engineering (RATE 12).* Surat, Gujarat. 07-09 June 2012.
- Patel, C. and Pastagia. D., 2011. Climate Change and sustainable development for urban area. In: *Sustainable Urban & Transportation Planning: Issues & Management Strategies (SUTRIMS 11)*. Surat, Gujarat. 8-11 July 2011.
- Patel, C., Tailor, R. and Vaghani, A., 2011. Household Characteristics of Surat City. In: *Sustainable Urban & Transportation Planning: Issues & Management Strategies (SUTRIMS 11)*. Surat, Gujarat. July 8-11 2011.
- Patel, C., Joshi, G. and Kothiya, M., 2010. Characterization of Bus Transit Operation and Demand Estimation: A Case Study of Surat. In: *URBAN MOBILITY 2010*. Surat, Gujarat. 3-5 December 2010.
- Patel, C. and Shah, N., 2010. Intelligent Transport System (ITS) A Tool for the Urban Transport Planner. In: *National Seminar on Sustainable Lifelines: Transportation Planning and Management*. Amritsar, Punjab. 12-13March.
- Patel, C., 2008. E Waste: Issue for the Sustainable Urban Environment. In: *National Conference on Sustainable Urban Environment: Issues and Management Strategies*. Surat, Gujarat. 27-29 February 2008.
- Patel, C. and Shah, N., 2008. Carbon Credit: A Way to Sustainability. In:*National Conference on Sustainable Urban Environment: Issues and Management Strategies*. Surat, Gujarat.27-29 February 2008.
- Patel, C. and Verma, S., 2007. Environmental Sustainable Transport System: A Challenge for the Developing Country. In: *National Conference on Sustainable Urban Transportation: Issues and Management Strategies (SUTRIMS 07).* Surat, Gujarat. 27-28 February 2008.
- Patel, C. (2007). Level of Service for the Urban Intersection: A Policy Statement for a Sustainable Transport System. In: *National Conference on Sustainable Urban Transportation: Issues and Management Strategies (SUTRIMS 07).* Surat, Gujarat. 27-28 February 2008.
- Patel, C., 2006. Bio Medical Waste: Managements and Handling. In: National Conference on Environmental Pollution Control for Sustainable Development. Kota, Rajasthan.

Books/Chapters/Editorials/Manuals

- Elements of Civil Engineering, AtulPrakashan, August 2009.
- Proceeding of National Conference and Workshop On Recent Advances In Traffic Engineering (RATE 12), Excel India Publisher, New Delhi, June 2012ISBN: 978-93-82062-33-2.
- Proceeding of National Conference SUSTAINABLE AND SMART CITIES (SSC-15), Excel India Publisher, New Delhi, April 2015 ISBN: 978-93-84869-52-6.

Abroad University Visit:

- University of Honkong, Honkong
- University of Mauritius, Mauritius
- National University of Singapore, Singapore
- University San Malaysia, Penag Malaysia
- Tongji University, Shanghai China
- Rome and Venice Urban Planning Study, Italy
- University of Sydney, Australia