



Curriculum vitae  
(Last updated on date 19/10/2023)

**Dr Bhaven N Tandel,**  
**Assistant Professor (Grade-I - Level-12)**  
**Environmental Engineering Section,**  
**Department of Civil Engineering,**  
**S. V. National Institute of Technology, Surat**

Date of Birth: 14-04-1974

Date of Joining: 01-01-2007

ORCID identifier - 0000-0001-8390-7414

### **EDUCATIONAL QUALIFICATIONS:**

B. E. (Civil Engineering)	June-1996	S. V. Regional College of Engineering & Technology, Surat South Gujarat University, Surat
M. E. (Civil) in Environmental Engineering	June-1998	S. V. Regional College of Engineering & Technology, Surat South Gujarat University, Surat
Ph. D. (Civil Engineering)	April-2015	S. V. National Institute of Technology, Surat

### **PROFESSIONAL EXPERIENCE: (as on date – 01/05/2022)**

Sr. No	Organization	Designation	From	To	Years
(1)	Ecosystem Control Associates, Surat	Environmental Engineer	01/09/1998	30/11/1999	1 year 3 months
(2)	Gujarat State Electricity Corporation Limited, Thermal Power Station, Ukai	Junior Engineer (Environment)	01/12/1999	31/12/2006	7 years 1 month
(3)	S. V. National Institute of Technology, Surat	Assistant Professor (Level-10)	01/01/2007	31/12/2018	12 years
(4)	S. V. National Institute of Technology, Surat	Assistant Professor (Level-12)	01/01/2019	Continued	4 years 9 months
<b>Total Experience</b>					<b>25 years 01 month</b>

### **MAJOR AREAS OF RESEARCH**

- Noise pollution modelling and mapping
- Health impacts of noise pollution
- Air quality modelling and mapping
- Indoor air quality
- Odour pollution

**TEACHING:**

<u>Under Graduate Level:</u>		<u>Post Graduate Level:</u>	
<b>COURSES TAUGHT</b>	<b>COURSES TEACHING</b>	<b>COURSES TAUGHT</b>	<b>COURSES TEACHING</b>
Engineering Drawing	Environmental Management	Environment Legislation	Indoor Air, Noise and Odour pollution
Basic Civil Engineering & Environmental Science	Air Pollution and Control	Environmental Health and Risk Management	Environmental Impact Assessment
Industrial Safety and Environment	Energy and Environmental Engineering		
Environment and Health			
Building Materials and Construction			
Heavy Construction & Project Management			

<u>Research Work:</u>		
<b>Details</b>	<b>Numbers</b>	
	<b>Completed</b>	<b>Ongoing</b>
PhD Thesis	03	05
M. Tech Dissertations	35	03
B. Tech Final Year Projects	09	--

**AWARDS / HONOURS / RECOGNITIONS:**

- 1) Secured 2nd prize in poster presentation at International Conference on Air Quality Management (IC-AQM), jointly organized by IIT, Madras (India) and University of Surrey (UK) at IIT, Madras. (Dec-2018).
- 2) Secured 1<sup>st</sup> prize in paper presentation at International Conference on Sustainable Environmental Engineering and Science (SEES-19) held at Kolkata, India in Nov-2019.
- 3) Won Bronze Medal (3<sup>rd</sup> position) in Table Tennis doubles event at the All India Inter NIT Sports Meet, held at MNIT Jaipur in Oct-2019.

**PUBLICATIONS:**

<b>Type</b>	<b>Nos</b>
SCI / SCIE / Scopus journals Published –	15
Accepted / Under Review	04
SCI / SCIE / Scopus Book Chapters	05
Other International Journals (Web Of Science/Thomas Reuters)	05
National Journals	--
International Conferences	36
National Conferences	14

**CONSULTANCY:**

- 1) Co-ordinator of Environmental Audit - Approved by GPCB as Schedule-I Environmental Auditors in the state of Gujarat.
- 2) Adequacy-Efficacy studies and certification.
- 3) Back Checks (3<sup>rd</sup> party surprise monitoring) of Schedule-II industries.
- 4) Stack emission and ambient air quality surveys.
- 5) Noise surveys and maps.

**MEMBER OF TECHNICAL SOCIETIES:**

- 1) Life Member, Indian Roads Congress
- 2) Life Member, Indian Water Works Association
- 3) Life Member, Institute of Urban Transport (India)
- 4) Life Member, Indian Buildings Congress

**Details of administrative duties at SVNIT, Surat:**

- 1) Co-chairman of Institute Level Social and Cultural Committee.
- 2) Departmental nominee of Institute Level Anti ragging squad.
- 3) Member of Departmental Committee for scrutiny of applications for the recruitment of Assistant Professors, Associate Professors and Professors.
- 4) Member of Departmental Committee for admission procedure for M. Tech and Ph. D programmes in Civil Engineering.
- 5) Preparation of the Accreditation report of M. Tech (Civil) in Environmental engineering programme in year 2008.
- 6) Departmental Co-ordinator (CED) of Time Table Committee. (From July 2015 till date)
- 7) Departmental Co-ordinator (CED) of Annual report, Website, MIS. (From July 2015 to June-2019)

**Ph.D. Thesis supervision Completed / Submitted / Ongoing:**

Sr. No	Name of the student	Category	Title	Status
(1)	Dipesh R. Sonaviya	FIR	Integrated road traffic noise mapping in urban Indian context.	PhD completed on date 05/09/2020.
(2)	Manoj M. Yadav	FIR	Structural Equation Model-Based Variable Selection for ANFIS Prediction Modelling of Human Work Efficiency in Traffic Noise Environment	PhD completed on date 09/06/2021.
(3)	Ramesh B. Ranpise	FIR	Strategic Noise Barrier Design Optimization Under Heterogeneous Urban Road Traffic Condition for Silence Zones of Surat City	Thesis submitted on date 16/06/2023
(4)	Pathan Mohsinkhan G.	PEC	Mapping PM <sub>2.5</sub> and PM <sub>10</sub> for an Indian urban city using real time data from low cost sensor network	Ongoing (Since July 2018)
(5)	Avnish Shukla	FIR	Modelling cognitive task learning of school children exposed to traffic noise environment.	Ongoing (Since July 2020)
(6)	Anirudh Mishra	FIR	A correlational study on driver behaviour and noise pollution.	Ongoing (Since July 2021)
(7)	(Ms) Deepali Jadhav	PEC	Polymer based composite materials for the acoustic improvement of noise barriers	Ongoing (Since Dec 2021)
(8)	Bhanu Chaudary	FIR	Development of a Wellbeing Index for Traffic Policemen Exposed to Urban Road Noise.	Ongoing (Since July 2022)

**M. Tech. Dissertations Guided:**

Sr. No	Name of the student	Title	Year
(1)	Chirag Soni	Determination of water quality index and radionuclide concentration of lake system	2010
(2)	Pratik N. Ruparel	Urban road traffic noise and its auditory health impacts at major intersections of Surat city	2011
(3)	Khushboo Parmar	A study of noise levels in urban street canyons	2012
(4)	Kartikey Tiwari	A GIS based approach for Mapping of Urban Road Traffic Noise	2013
(5)	Parth G. Tandel	Assessment of Water Quality Index for the groundwater in and nearby industrial area	2013
(6)	Athira Rajeev	A laboratory study on the treatment of municipal wastewater using sequencing batch reactor	2014
(7)	Vivek A. Singh	Development of traffic noise prediction model for major arterial roads of Surat city using artificial neural network	2014
(8)	Saji Simon C.	Multiple Linear Regression and Frequency Analysis of Traffic Noise at Major Arterial Roads of Surat City	2014
(9)	Meenal Gupta	A comparative study on removal of Cu (II) using activated carbon and low cost adsorbents	2015
(10)	Niraj Rathod	A laboratory study on performance evaluation of sequencing batch reactor using municipal wastewater	2015
(11)	V. Sindhuri	A Laboratory Study on the Removal of Chromium using Low Cost Adsorbents by Column Study	2016
(12)	Aiswariya T.	Assessment of groundwater using WQI and GIS	2016
(13)	Anjai Dutt	A study on dairy wastewater using Electro-coagulation	2017
(14)	Supranshu Mishra	Copper removal from wastewater using low cost adsorbent	2017
(15)	Bibin K. Suresh	An experimental study on integrated power free electro-dialysis on desalination	2018
(16)	Devyani Bagrecha	Study of Electro-coagulation and Fenton oxidation on agro-chemical industrial waste water	2018
(17)	Mansi M. Gam (PDPU, Gandhinagar student)	Assessment and modelling noise pollution due to vehicular traffic and its impact on human work efficiency	2018
(18)	Suyash Khare	Development and comparison of ambient air quality prediction model using multiple linear regression and artificial neural network	2019
(19)	Chandanmal Darjee	Development and comparison of traffic noise prediction model using multiple linear regression and artificial neural network	2019
(20)	Tulsi Makwana	A laboratory study on phosphate removal using concrete waste	2019
(21)	Anant Kumar	Indoor environmental quality of naturally ventilated classrooms: A case study of SVNIT, Surat, India	2020
(22)	Kumari Someya	Evaluation and ANN Modelling of Traffic Noise on BRTS Corridors of Surat city with Different Median Vegetation	2020
(23)	Garima Singh	A study on enhancement of COD reduction in biological treatment of CETP waste by algal extract	2020

(24)	Meenal Goyal	Design of noise barrier for some silence zones of Surat city using FHWA model	2021
(25)	Paresh Parmar	Development of noise prediction model for road traffic at selected hospitals of Surat city using Genetic Algorithm optimization	2021
(26)	Tanish Gangurde	Road traffic noise frequency analysis for varying vehicular speed and type	2021
(27)	Aniket Gurav	Efficiency evaluation of Common Effluent Treatment Plant by Fuzzy approach- A case study of CETP Waluj	2021
(28)	Vallabh Burde	A correlation and ranking study on indoor air environment of college classrooms with respect to occupants comfort	2021
(29)	Dhaval Sindhav	Development of day time noise maps and modified FHWA model for some silence zones (Institutional Buildings) of Surat city	2022
(30)	Mohammad Faraz Kazi	GIS based mapping, temporal variation of PM <sub>2.5</sub> and PM <sub>10</sub> and RNN based air quality prediction modelling of an Indian city	2022
(31)	Mahesh	Assessment of indoor and outdoor noise quality and associated health impacts at selected primary and secondary schools in Surat city, India	2022
(32)	Rahul Indaliya	Assessment of indoor air quality and associated health impacts at selected primary and secondary schools in Surat city, India	2022
(33)	Devyani Berwa	Modelling driver annoyance under the influence of noise in public transport buses: A structural equation approach	2023
(34)	Vandana Patel	Modelling passenger annoyance under the influence of noise in public transport buses: A structural equation approach	2023
(35)	Priyadarshini P.	Noise barrier design optimization using artificial neural network	2023

### **B. Tech. Projects Guided:**

Sr. No	Name of the students	Title	Year
(1)	Avichal Joshi, Prashant Tyagi, Supriya Gupte	Travel behaviour analysis of Surat city bus users	2008
(2)	Diggishwar Prasad, Harjimal Meena, Prakash Singh	Surat Urban Corridor Noise Pollution Regression Modelling	2009
(3)	Tanmay Jain, Gulshan Yadav, Shankar Lal, Kushal Jangid, Pawan Baranwal, Abdul Wahid	Characterization and design of sewage treatment plant	2016
(4)	Yash Bharodia, Dishna Phukan, Dileep Meena, Devanshu Singh	Urban road traffic noise modelling using Multiple Linear Regression for Surat city	2017
(5)	Ruchika Mistry, Vikash Sharma, Rahul Kumar, Raviraa Bhardwaj	Development of road traffic noise prediction model in residential zones of Surat city	2018
(6)	Harsh Vardhan Attal, Abhishek Gavitt, Nisarg N Patel	Quantitative and subjective assessment of noise impacts due to Surat airport	2019
(7)	V. Aarthi, Bikash Shah, Akshith Yamasani	Assessing vehicular and other forms of air pollution w.r.t. PM <sub>10</sub> in residential areas of Surat city	2020

(8)	Dhananjay Kumar, Devansh Tiwari, Rekha Meena	Day Time Urban Road Traffic Noise Prediction Modelling Using Multiple Linear Regression In Some Silence Zones Of Surat City	2021
(9)	Muskan Asnani, Amit C. Patel, Himanshu Arya	E-vehicles: A study on future air pollution estimate and perception & awareness of prospective users	2022

### **Research publications:**

Sr No	Title of paper	Name of Journal / Conference	Page Nos, Volume, Issue No & Year
<b>(a) International Journal (SCI/eSCI/Scopus)</b>			
(1)	Association of road traffic noise exposure and school childrens' cognition - A structural equation model approach	<i>Environmental Research (Elsevier)</i> DOI: <a href="https://doi.org/10.1016/j.envres.2023.117388">https://doi.org/10.1016/j.envres.2023.117388</a>	Volume 240, Part 1, 117388, 2024
(2)	Evaluation and ANN Modelling of Traffic Noise on BRTS Corridors with Different Median Vegetation: A case study of Surat city (Western India)	<i>Journal of Institution of Engineers (India), Series A (Scopus indexed)</i> DOI: <a href="https://doi.org/10.1007/s40030-022-00689-3">https://doi.org/10.1007/s40030-022-00689-3</a>	1325–1339, Vol: 103(4), Dec 2022
(3)	Urban Road Traffic Noise Monitoring, Mapping, Modelling, and Mitigation: A Thematic Review	<i>Noise Mapping (Scopus indexed)</i> DOI: <a href="https://doi.org/10.1515/noise-2022-0004">https://doi.org/10.1515/noise-2022-0004</a>	48-66, Vol.-9 2022
(4)	Noise Monitoring and Perception Survey of Urban Road Traffic Noise in Silence Zones of a Tier II City - Surat, India	<i>Journal of Institution of Engineers (India), Series A (Scopus indexed)</i> DOI: <a href="https://doi.org/10.1007/s40030-021-00598-x">https://doi.org/10.1007/s40030-021-00598-x</a>	155–167, Vol: 103(1), Mar 2022
(5)	Assessment and Appraisal of Morning Peak Time Urban Road Traffic Noise at Selected Locations of Major Arterial Roads of Surat City, India	<i>Asian Journal of Water, Environment and Pollution (Scopus indexed)</i> DOI: <a href="https://doi.org/10.3233/AJW220012">10.3233/AJW220012</a>	81-86, Vol.-19, Issue-1, 2022
(6)	Appraisal of Urban Road Traffic Noise in tier-II City (Surat City), India	<i>Sound and Vibration (Scopus indexed)</i> DOI: <a href="https://doi.org/10.32604/sv.2022.014334">https://doi.org/10.32604/sv.2022.014334</a>	77-88, Vol-56, Issue-1, 2022
(7)	Work Efficiency Prediction of Persons Working in Traffic Noise Environment Using Adaptive Neuro Fuzzy Inference System (ANFIS) Models	<i>Archives of acoustics (SCI Indexed)</i> DOI: <a href="https://doi.org/10.24425/aoa.2021.139644">https://doi.org/10.24425/aoa.2021.139644</a>	677–683, Vol. 46, No. 4, 2021
(8)	Noise abatement approach using computer simulation model for urban India road of Tier-II city	<i>Archives of acoustics (SCI Indexed)</i> DOI: <a href="https://doi.org/10.24425/aoa.2021.138145">https://doi.org/10.24425/aoa.2021.138145</a>	531–537, Vol. 46, No. 3, 2021
(9)	Development of traffic noise prediction model for major arterial roads of tier-II city of India (Surat) using artificial neural network	<i>Noise Mapping (Scopus indexed)</i> DOI: <a href="https://doi.org/10.1515/noise-2021-0013">https://doi.org/10.1515/noise-2021-0013</a>	172-184, Vol.-8 2021

(10)	Structural Equation Model-Based Selection and Strength Co-Relation of Variables for Work Performance Efficiency Under Traffic Noise Exposure	<i>Archives of acoustics (SCI Indexed)</i> DOI: <a href="https://doi.org/10.24425/aoa.2021.136569">https://doi.org/10.24425/aoa.2021.136569</a>	155–166, Vol. 46, No. 1, 2021
(11)	Prediction and Limitations of Noise Maps Developed for Heterogeneous Urban Road Traffic Condition: A Case Study of Surat City, India	<i>Sound and Vibration (Scopus indexed)</i> DOI: <a href="https://doi.org/10.32604/sv.2021.010715">https://doi.org/10.32604/sv.2021.010715</a>	57-68, Vol-55, Issue-1, 2021
(12)	Integrated road traffic noise mapping in urban Indian context	<i>Noise Mapping (Scopus indexed)</i> DOI: <a href="https://doi.org/10.1515/noise-2020-0009">https://doi.org/10.1515/noise-2020-0009</a>	99-113, Vol.-7, Issue-1, June-2020
(13)	2-D noise maps for tier-II city of urban Indian roads	<i>Noise Mapping (Scopus indexed)</i> DOI: <a href="https://doi.org/10.1515/noise-2019-0001">https://doi.org/10.1515/noise-2019-0001</a>	1-7, Vol.-6, Issue-1, April-2019
(14)	Exposure effect study of traffic noise on roadside shopkeepers in Surat city, India	<i>Indian Journal of Environmental Protection (Scopus Indexed)</i>	1038-1045, Vol. 19, Issue 11, 2019.
(15)	Road Traffic Noise Exposure and hearing impairment among policemen in Surat, Western India	<i>Journal of Institution of Engineers (India), Series A (Scopus indexed)</i> DOI: <a href="https://doi.org/10.1007/s40030-017-0210-6">https://doi.org/10.1007/s40030-017-0210-6</a>	101–105, Vol: 98, June 2017

**(b) Books / Book Chapters, Monographs, Lab or Design Manuals – Authored:**

Sr. No.	Authors	Title of the Book Chapter	Name of the Book	Year of Publication	ISBN/ISSN No.	Publisher
(1)	Tandel B. N., Sindhav Dhaval, Ranpise R. B.	Assessment and mapping of urban road traffic noise at hospital buildings: The case of Surat city, India	Emerging Technology and Management Trends in Environment and Sustainability	2023	eISBN 978-1-003-35623-3	Routledge (Taylor & Francis)
(2)	Tandel B. N., Yadav M. M., Ahammed M. M.	Advance soft computing techniques in modelling noise pollution health impacts	Current Trends and Advances in Computer-Aided Intelligent Environment Data Engineering	2022	ISBN 978-0-323-85597-6	Elsevier (Academic Press)
(3)	Tandel B. N., Suresh B. K.	An Experimental Study on Integrated Power-Free Shock Electro-dialysis for Desalination  DOI - <a href="https://doi.org/10.1007/978-981-15-6887-9_9">https://doi.org/10.1007/978-981-15-6887-9_9</a>	Sustainability in environmental engineering & science, Lecture notes in Civil Engineering, Vol. 93	2021	ISSN 2366-2565 (electronic)  ISBN 978-981-15-6887-9 (eBook)	Springer



(4)	Ranpise R.B., Tandel B. N., Darjee C.	Assessment and MLR Modeling of Traffic Noise at Major Urban Roads of Residential and Commercial Areas of Surat City DOI - <a href="https://doi.org/10.1007/978-981-15-6887-9_21">https://doi.org/10.1007/978-981-15-6887-9_21</a>	Sustainability in environmental engineering & science, Lecture notes in Civil Engineering, Vol. 93	2021	ISSN 2366-2565 (electronic) ISBN 978-981-15-6887-9 (eBook)	Springer
(5)	B. K. Suresh, N. Moondra, B. N. Tandel	Assessment of Carbon Foot Print: A Case Study of SVNIT Campus DOI – <a href="https://doi.org/10.1007/978-981-15-5195-6_75">https://doi.org/10.1007/978-981-15-5195-6_75</a>	Recent Trends in Civil Engineering, Lecture Notes in Civil Engineering, Vol. 77	2021	ISBN: 978-981-15-5195-6 (eBook)	Springer

<b>(c) International Journal (Web of Science)</b>			
(1)	Assessment of Fluctuations in Traffic Noise Levels with Simultaneous Traffic Density	International Journal of Innovative Technology and Exploring Engineering (Scopus Indexed)	493-498, Volume 4, Issue 9, 2020.
(2)	A review on GIS based approach for road traffic noise mapping	Indian Journal of Science & Technology (Thomas Reuters) DOI: <a href="https://doi.org/10.17485/ijst/2019/v12i14/132481">10.17485/ijst/2019/v12i14/132481</a>	1-6, Vol-12, Issue-14, April-2019
(3)	Assessment and MLR modelling of urban traffic noise at major arterial roads of an Indian city	(International) Journal of Environmental Research and Development (JERAD)	Vol. 7, 4A, pp: 1703-1709, Apr-June 2013. ISSN No: 0973-6921
(4)	Urban Road Traffic Noise: Unwanted Sound or Unwanted Issue?	International Journal of Global Technology Initiatives (IJ-GTI)	Issue 1, pp: A59-A63, March 2012, ISSN:2277-6591
(5)	Importance of urban traffic noise pollution in sustainable transportation planning: A review	International Journal of Emerging Technologies and applications in Engineering, Technology and Sciences (IJ-ETA-ETS)	Volume 4, Issue 2, pp: 1-4, July-Dec 2011. ISSN No: 0974-3588

Sr No	Title of paper	Name of Conference	Month & Year
<b>(d) International Conferences</b>			
1)	Assessment and impacts of C&D noise induced-annoyance and awareness amongst residents' living in an apartment	International Conference on Environmental Sustainability (ICES-2023), Veermata Jijabai Technological Institute, Mumbai.	March-2023
2)	A study on annoyance and sleep disturbance due to road traffic noise in some residential areas of Kanpur city, India	International Conference on Environmental Sustainability (ICES-2023), Veermata Jijabai Technological Institute, Mumbai.	March-2023
3)	Development and policy framing shapes air pollution in Delhi's urban environment; A review	International Conference on Environmental Sustainability (ICES-2023), Veermata Jijabai Technological Institute, Mumbai.	March-2023
4)	Effect of traffic composition on environmental noise and development of noise map of	National Conference on Recent Advances in Transportation Engineering (RATE-2022) (Department of Civil Engineering,	Nov-2022 (Won the best paper prize in poster presentation)

	roadside school, colleges and hospital buildings	S. V. National Institute of Technology, Surat)	
5)	Impact of traffic noise on teaching and learning process of school environment	National Conference on Recent Advances in Transportation Engineering (RATE-2022) (Department of Civil Engineering, S. V. National Institute of Technology, Surat)	Nov-2022
6)	Assessment and mapping of urban road traffic noise at hospital buildings: The case of Surat City, India	International Conference on Emerging Technology & Management Trends in Environment and Sustainability (EMTES-2022) (Budge Budge Institute of Technology, Kolkata)	Nov-2022 (Won the best paper prize in oral presentation)
7)	Evaluation of construction-demolition noise and its impact on annoyance in the academic: A case study of Surat, India	International Conference on Emerging Technology & Management Trends in Environment and Sustainability (EMTES-2022) (Budge Budge Institute of Technology, Kolkata)	Nov-2022
8)	Development of Noise Prediction Model for Road Traffic at Selected Hospitals of Surat City Using Genetic Algorithm Optimization	International Conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS 2022), (BITS Pilani, K K Birla Goa Campus, India)	Sept-2022
9)	Development of Noise Prediction model for a silence zone of Surat city using FHWA model	4th International Conference on Recent Trends in Multi-Disciplinary Research Institute for Engineering Research and Publication (IFERP), (Maldives)	Dec-2021
10)	Measurement of noise levels inside and outside environment of roadside schools in an urban area: A case study of Surat, India	International Conference on Sustainable Environmental Engineering and Science (SEES-2021), (Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex, Kolkata, India)	Dec-2021
11)	Noise pollution control methods and modelling: A review	National Conference (Virtual Mode) on Air, noise & Odour Pollution (ANOP-2021) (Department of Civil Engineering, S. V. National Institute of Technology, Surat)	Oct-2021
12)	Assessment and appraisal of morning peak time urban road traffic noise at selected locations of major arterial roads of Surat city	International Conference on Advances in chemical, Biological and Environmental Engineering (ICACBEE-2021) (Malaviya National Institute of Technology, Jaipur)	April-2021
13)	Evolutionary computational techniques in Environmental Engineering	National Conference on Advances in Chemical Sciences and Technology for Environment and Sustainability (ACSTES-2020) (Department of Chemistry, S. V. National Institute of Technology, Surat)	Feb-2020

14)	Study on Fluctuating Noise Levels with Respect to Traffic Density in Surat City, India	International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), NIT Jalandhar	Feb-2020
15)	Assessment of Road Traffic Noise in Tier II city, India	International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), NIT Jalandhar	Feb-2020
16)	Assessment and MLR modelling of traffic noise at major urban roads of residential and commercial areas of Surat city	International Conference on Sustainable Environmental Engineering and Science (SEES-19), Kolkata, India	Nov 2019
17)	An experimental study on integrated power free shock electro dialysis for desalination.	International Conference on Sustainable Environmental Engineering and Science (SEES-19), Kolkata, India	Nov 2019
18)	A laboratory study on phosphate removal using concrete waste	International Conference on Sustainable Environmental Engineering and Science (SEES-19), Kolkata, India	Nov 2019
19)	Applications of fuzzy logic in prediction of noise induced health effects	International Conference on Sustainable Built Environment, Kandy, Sri Lanka	Dec 2016
20)	A Quick review On Noise propagation models and software	International Conference on Sustainable Built Environment, Kandy, Sri Lanka	Dec 2016
21)	A quick review on adoption of fuzzy logic in prediction of noise pollution effects	RECYCLE-2K16, IIT Guwahati	April 2016
22)	A Review on GIS-Based Approach for Road Traffic Noise Mapping	RECYCLE-2K16, IIT Guwahati	April 2016
23)	Assessment of Water Quality Index for the groundwater in and nearby industrial area of Surat, India	2nd International Conference on Civil and Urban Engineering (ICCUE 2015), Florence, Italy.	19-20 Mar 2015
24)	Audiometric assessment of urban road traffic noise affected police personnel: A case study of Surat. India	9th Asia Pacific Conference on Transportation and Environment, Colombo, Sri Lanka.	6-8 Aug 2014
25)	A GIS Based Approach for Mapping of Urban Road Traffic Noise	International Conference on Awareness Initiatives for Energy, Environment and Ecology, IIT, Bombay	March-2013
26)	Urban Road Traffic Noise: Unwanted Sound or Unwanted Issue?	International Conference on Global Technology Initiatives (ICGTI-2013), Rizvi College of Engineering, Bandra, Mumbai, India.	March-2012
27)	Urban Road Traffic Noise in Street Canyons: A Review	International Conference on Information, Knowledge and Research in Engineering, Technology and Sciences (ICIKR-ETS-2012), G. K. Bharad Institute of Engineering, Rajkot, India.	March-2012
28)	Assessment of water quality index of small lake in South Gujarat region, India	International Conference on Ecological, Environmental and Biological Sciences (ICEEBS 2011) organized by Integrated Scientific, Engineering and Management (ISEM) society, Bangkok, Thailand.	July 2011
29)	Urban Corridor Noise Pollution: A case study of Surat city, India	Asia-Pacific Chemical, Biological and Environmental Engineering Society, Kuala Lumpur, Malaysia.	June-2011

30)	Importance of urban traffic noise in sustainable transportation planning: A review	International Conference on Innovative Science & Engineering Technology, (ICISSET-2011), V.V.P. Engineering College, Rajkot.	April-2011 (Won 1st prize for best paper presentation)
31)	Road Transportation in India: Aspects of Environmental Legislation	International Conference on Infrastructure, Sustainable Transportation and Urban Planning (CISTUP-2010), IISc, Bangalore.	October-2010
32)	e-Waste: Biggest challenge of the 21st century	International Conference on Infrastructure, Sustainable Transportation and Urban Planning (CISTUP-2010), IISc, Bangalore.	October-2010
33)	Nuclear Power: Environmental importance and hazards	International Congress of Environmental Research (ICER-2010), University of Mauritius, Mauritius.	Spetember-2010
34)	Environmental legislation and education: two sides of the same coin	International Congress of Environmental Research (ICER-2010), University of Mauritius, Mauritius.	Spetember-2010
35)	Wellthy, not wealthy: Need of the 21st century	Soft skills-A key to professional excellence, Himalayan Institute of Management, Himachal Pradesh.	April-2010
36)	Environmental ethics & values: Need of the 21st century	VIIIth Global Conference on Environmental Education organized by MoEF, IES & DST, Goa	November-2009

<b>(e)</b>	<b>National Journal</b>
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Sr No	Title of paper	Name of Conference	Page Nos, Volume, Issue No & Year
<b>(f)</b>	<b>National Conferences</b>		
(1)	Effect of traffic noise pollution on individuals working in busy commercial areas of tier-II city of India	Pollution Control Technologies and Sustainable Development, MNIT Jaipur	Oct 2019
(2)	Noise monitoring and assessment for one of the residential zone of tier-II city (Surat) of India	Pollution Control Technologies and Sustainable Development, MNIT Jaipur	Oct 2019
(3)	Mitigation strategies for urban road traffic noise: A review	Pollution Control Technologies and Sustainable Development, MNIT Jaipur	Oct 2019
(4)	Noise Pollution Impacts on Human Health: A Review	Noise and Air Pollution (NAP-17), SVNIT, Surat	March 2017
(5)	Mitigation, control techniques and legislation for noise pollution: A review	Noise and Air Pollution (NAP-17), SVNIT, Surat	March 2017
(6)	Flyash: Solid waste or solid wealth?	National Workshop on Utilization of Flyash	June-2011
(7)	Urban Traffic Noise: An ignored planning component	New horizons for Sustainable Tomorrow (NHST-2011), Sarvajanik College of Engineering & Technology, Surat.	February-2011
(8)	Noise Pollution: The hidden evil of 21st century	New horizons for Sustainable Tomorrow (NHST-2011), Sarvajanik College of Engineering & Technology, Surat.	February-2011

(9)	Can Nuclear Power be an option for thermal (coal) energy?	Advanced Research Techniques in Chemical Engineering (ARTCHEM-2010), Sarvajani College of Engineering & Technology, Surat	December-2010
(10)	Coal based power: An inevitable environmental curse	Integrated Energy Policy: Issues and challenges, PDPU, Gandhinagar and GETCO, Baroda.	August 2010
(11)	Energy and environment: Two sides of the same coin	Fly ash/Futuristic Materials in Civil Engineering Construction For Sustainable Development, Birla Vishwakarma Mahavidyalay, Anand.	August-2010
(12)	Noise pollution in power plants: legislation and management	All India Seminar of Environmental Engineers on "Noise Pollution", VIT, Jaipur and Institution of Engineers, Rajasthan State Centre, Jaipur.	March-2010
(13)	Hazardous Waste legislation: The Indian scenario	Emerging trends in Chemical Engineering (ETCE-2008), Chemical Engineering Department, SVNIT, Surat.	May-2008
(14)	Flyash: Bane or boon, waste or wealth	Sustainable Urban Environment: Issues and management strategies (SUEIMS-2008), Civil Engineering Department, SVNIT, Surat.	February-2008

**Details of Conferences / Workshops / Seminars organized:**

Sr. No	Title	Type of programme	Duration		
			From	To	No of Days
(1)	Noise and Air Pollution: Monitoring and Modelling	National Conference	22/10/2021	23/10/2021	02
(2)	Air, Noise and Odour Pollution	Faculty Development Programme (STTP)	19/07/2021	23/07/2021	05
(3)	Exploring Research Topics and Techniques of Technical Writings	Short Term Training Programme	25/12/2019	29/12/2019	05
(4)	Noise and Air Pollution: Monitoring and Modelling	National Conference	17/03/2017	18/03/2017	02
(5)	GREEN BUILDING: Concept, Ratings & Researches	National Workshop	14/02/2017		01
(6)	Noise and Air Pollution: Challenges and Opportunities	National Workshop	14/10/2016	15/10/2016	02
(7)	Recent Advances in Civil Engineering (RACE-2016)	National Conference	05/03/2016	06/03/2016	02
(8)	Outcome based learning for NBA Accreditation (PG Programme)	National Workshop	02/11/2015	03/11/2015	02
(9)	Assessment tools for NBA Accreditation (UG Programme)	National Workshop	22/05/2015	23/05/2015	02

(10)	Sustainable Environmental Planning	Short Term Training Programme	30/11/2009	04/12/2009	05
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**Expert lectures delivered:**

Title of Lecture	Name of the programme	Institute / Department	Date
Noise Pollution: Basic fundamentals, health impacts & mitigation strategies	Five days Online FDP on “Air, Noise and Odour Pollution” sponsored by AICTE, ATAL	Department of Civil Engineering, SVNIT, Surat	July 2021
Air pollution sampling: basics and fundamentals	Five days Online Short Term Training Program on “Air Pollution: Sources, Control and Modelling” sponsored by TEQIP-III	Department of Civil Engineering, SVNIT, Surat	Feb 2021
Environmental and social impacts of COVID-19: Lessons to be learnt	Online Webinar	Government Engineering College, Surat	11 June 2020
PhD: What, why, when and how ?	<b>One week STTP on “Exploring Research Topics and Techniques of Technical Writings”</b>	S. V. National Institute of Technology, Surat	25 Dec 2019
Genetic Algorithms: Basic theory and applications	One week STTP on “ <b>Research methodology and soft computing techniques for Civil Engineering</b> ”	C. K. Pithawala College of Engineering & Technology, Surat	4 Dec 2019
Air pollution sampling: basics and fundamentals	One week short Term Training Programme on “ <b>Environmental Laboratory experimental methods: Testing and analysis</b> ”	Government Engineering College, Banswara, Rajasthan	23 Aug 2019
Environmental Impact Assessment	Special Lecture	Government Engineering College, Valsad, Gujarat	13 Feb 2019
Noise Pollution: Basics and Control	One week short Term Training Programme on “ <b>Emerging technologies in Environmental Pollution Control</b> ”	Civil Engineering Department, Birla Vishwakarma Mahavidyalay, Anand.	7 Jan 2019
Environmental Impact Assessment	Special Lecture	Civil Engineering Department, Sarvajanik College of Engineering & Technology, Surat	5 Oct 2018
How to Write Minor/Major Research Project Report	One week Short Term Training Programme on “ <b>Research Methodology for Academia</b> ”	Naran Lala School of Industrial Management & Computer Science, Navsari and GIDC Degree Engineering College, Navsari	14 July 2017

Title of Lecture	Name of the programme	Institute / Department	Date
Introduction to soft computing techniques	One week Short Term Training Programme on “ <b>Research Methodology for Academia</b> ”	Naran Lala School of Industrial Management & Computer Science, Navsari and GIDC Degree Engineering College, Navsari	14 July 2017
Environmental Audit: <b>What, why and how?</b>	One day workshop on “ <b>Environmental Pollution Control, Sampling and Analysis</b> ”	Pacific College of Engineering, Palsana, Surat	20 Mar 2017
Green buildings in India: Salient features	One day workshop on “ <b>GREEN BUILDING: Concept, Ratings &amp; Researches</b> ”	Civil Engineering Department, S. V. National Institute of Technology, Surat	14 Feb 2017
Air Pollution: Meteorology & modelling	Two days workshop on “ <b>Sustainable technologies for noise &amp; air pollution challenges</b> ”	Darshan Institute of Engineering and Technology, Rajkot	21 Jan 2017
Noise Pollution: Fundamentals and health impacts	Two days Workshop on “ <b>Noise &amp; Air Pollution: Challenges &amp; Opportunities</b> ” NAP COP-16	Civil Engineering Department, SVNIT, Surat	25 Oct 2016
Basic fundamentals of Noise Pollution	Three days training programme on “ <b>Environment Auditing Made Easy: Basics Analytical Test Procedure</b> ”	Civil Engineering Department, SVNIT, Surat	23 Sep 2016
Health and holistic development	One Week Short Term Training Program on “ <b>Holistic approach for Technical education</b> ”	SVNIT, Surat	13 Sep 2016
Government laws and policies for waste management in smart cities	One week Short Term Training Program on “ <b>Waste management for smart cities</b> ”	Civil Engineering Department, SVNIT, Surat	May 2016
Environmental Impact Assessment	One Week Short Term Training Program on “ <b>Environmental degradation and control</b> ”	Civil Engineering Department, Birla Vishwakarma Mahavidyalay, Anand.	25 Apr 2016
Environmental Impact Assessment: What, Why And How?	Two days workshop on “ <b>Recent Issues, Advances and Innovation in Environmental Engineering</b> ”	UKA TARSADIA UNIVERSITY C.G. Patel Institute of Technology Civil Engineering Department	12 Mar 2016
Genetic Algorithms: An overview	Two days workshop on “ <b>Application of soft computing techniques in Civil Engineering</b> ”	Civil Engineering Department, SVNIT, Surat	16 Oct 2015
Sustainability of Power Plants	One week summer school for faculty development on “ <b>Sustainable</b> ”	Civil Engineering Department, SVNIT, Surat	4 Dec 2009

Title of Lecture	Name of the programme	Institute / Department	Date
	<i>Environmental Planning</i>		
Environmental Impact Assessment: What, Why and How?	One week summer school for faculty development on “ <i>Sustainable Environmental Planning</i> ”	Civil Engineering Department, SVNIT, Surat	2 Dec 2009
Environmental Legislation in India: An overview	One week summer school for faculty development on “ <i>Sustainable Environmental Planning</i> ”	Civil Engineering Department, SVNIT, Surat	30 Nov 2009
Flyash: Bane or boon, waste or wealth?	One week STTP on “ <i>Sustainable Water and Waste management techniques</i> ”	Civil Engineering Department, SVNIT, Surat	July 2009
Hazardous waste legislation: The Indian scenario	One week STTP on “ <i>Solid &amp; Hazardous Waste Management</i> ”	Civil Engineering Department, SVNIT, Surat	Dec 2008
Flyash: Solid waste or solid wealth?	One week STTP on “ <i>Solid &amp; Hazardous Waste Management</i> ”	Civil Engineering Department, SVNIT, Surat	Dec 2008