Dr Namrata D Jariwala

**Education**

**PhD** – SVNIT, Surat, 2013

**M E (Civil) Env. Engg.**  – M S University, Baroda in 1997 with 73.34 % **(Secured First Rank)**

**B E (Civil) -** M S University, Baroda (1996) with 68.32 % **(Gold medals awarded)**

**Experience**

**Assistant Professor**  – SV NIT, Surat **November 2006- till date**

**Area of Research**

1. Health and risk studies in Environmental Engineering
2. Air pollution related studies
3. Soft computing techniques in Env. Engg.
4. Solid and Hazardous Waste Management

**Subject Teaching at B Tech level**

1. Engineering Graphics at B Tech (I)
2. Energy and Environmental Engineering
3. Water Treatment Distribution System at B Tech (III) Civil
4. Municipal Waste Water Engineering at B Tech (IV) Civil

**Subject teaching at M Tech level**

1. Environmental Chemistry and Microbiology
2. Solid and Hazardous Waste Management
3. Air pollution and Control
4. Applied Stastics for Engineers

**Ph D Guided :** Ongoing :7 (1 completed - 2 submitted, 4 ongoing)

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| **S. No.** | **Name of Student** | **Thesis Title** | **Present Status** |
| **1** | Nisha P. Soni | Integrated Environmental Pollution Potential of Industries with Reference to Wastewater and Air Emission | Awarded |
| **2** | Mayuri Prajapati | Geochemical Evaluation and GIS mapping of ground water quality with special reference to fluoride of Surat District | Submitted |
| **3** | Neelam Sharma | Dark greywater Treatment by filtration system and treatment selection by using soft computing tools (FMCDM & AHP) | Submitted |
| **4** | Drashti Kapadia | Determination of ozone level in urban area | RPS VII  On going |
| **5** | Hiral Patel | Impacts of climate change in water quality | RPS IV On going |
| **6** | Seema Nihalani | Heavy metals analysis in air borne particulate matter | RPS III  On going |
| **7** | Nandini Moondra | Treatment of waste water through Phyco remediation | RPS III  On going |

**M Tech Guidance**

Completed (2006-2019) : 18 completed Ongoing : 3

**Research Publication (Selected Journal)**

1. Moondra Nandini, Jariwala Namrata, Christian R A and Narulkar Sandip (2019) “ Treatment of kitchen wastewater through Phycoremediation in Indian context.” Journal of Indian Water Works Association, Vol. L1, pp 23-28, January- March 2019.
2. Mayuri Prajapati, Namrata Jariwala, Prasit Agnihotri, (2018). “Geochemical Evaluation of Groundwater in the Mandvi Taluka of Surat, India”, Journal of Environmental Protection, Vol.9, pp 67-89, January 2018.
3. Mayuri Prajapati, Namrata Jariwala, Prasit Agnihotri,(2018). “Evaluation of groundwater quality with special emphasis on fluoride contamination using multivariate statistical analysis in rural parts of Surat district, Gujarat”, **ISH Journal of Hydraulic Engineering, (Taylor & Francis)** DOI:10.1080/09715010.2018.1468828.
4. Nisha Pritesh Soni, Robin Alfred Christian, Namrata Dharmendra Jariwala (2018), “Assessment of Environment Pollution Potential Index for Re-Categorization of Industries in Context of Developing Nations,” International Journal of Ecological Science and Environmental Engineering. Vol. 5, No. 2, pp. 58-63.May 2018.
5. Neelam S. Sharma, Kunwar D. Yadav, Namrata D. Jariwala, (2018). “Effect of organic loading rate and retention time on pollutant reduction in a batch process for gray water treatment,” **Desalination and Water Treatment** Vol: 118 pp 268–273 June 2018. DOI: 10.5004/dwt.2018.22442
6. Neelam S Sharma, Namrata Jariwala, (2018). “Effect of Preliminary Treatment on Dark Greywater Characteristics” **International Journal of Civil Engineering and Technology (IJCIET)** Vol. 9, Issue 6, pp 224–234 June 2018
7. Neelam S. Sharma, Kunwar D. Yadav, Namrata D. Jariwala (2018), Kitchen greywater treatment by using natural and artificial filter media. **Indian Journal of Environmental Protection** (IJEP) 38 (12) (2018) 975–982
8. Mayuri Prajapati, Namrata Jariwala, Prasit Agnihotri, (2017). “Spatial distribution of groundwater quality with special emphasis on fluoride of Mandvi Taluka, Surat, Gujarat, India”, **Applied Water Science (Springer)**, Vol. 7, No:8 , pp 4735-4742 , December 2017.DOI 10.1007/s13201-017-0636-z
9. Karan Patil., N D Jariwala (2017) “**Determination of Wall-Decay Coefficient (Kw) for Water Distribution System of Dhule City using EPANET”,** International Research Journal of Engineering and Technology (IRJET)Vol. 4 , No: 3, pp 1199-1204 , March 2017.
10. Soni, N., Christian R.A. and Jariwala, N. (2016) “Pollution Potential Ranking of industries Using Classical TODIM Method”, **Journal of Environmental Protection**, Vol. 7, pp 1645-1656, October 2016. <http://dx.doi.org/10.4236/jep.2016.711134>
11. Namrata Jariwala Prakashkumar Chaudhari” Physiochemical analysis for upstream stretch of river tapi” International Journal of Advances in Mechanical and Civil Engineering, ISSN: 2394-2827 . Vol. 3 , No: 4, pp 42-46 , August 2016.
12. Agnihotri P G, Mayuri Prajapati, Namrata Jariwala” Assessment of groundwater quality with special emphasis to fluoride contamination in and around Mandvi Taluka, Surat, Gujarat, India, Vol. 188, pp 102-108, October 2015. (Discovery)
13. Namrata Jariwala, RA Christian “Fuzzy Rule Based System Approach for the prediction of Respiratory Abnormalities in Solid Waste Workers”**International Journal of life Sciences Biotechnology and Pharma Research**, Vol. 4, No: 1, pp 62-65, 2015
14. Namrata D Jariwala, Robin A Christian”[A Study of Prevalence of Morbities in Door to Door Waste Collecting Workers of Surat City, Gujarat](http://www.academia.edu/download/54257723/IJPHRD-OCT-DECEMBER_-24-10-2013-_Study_of_effect_of_smoking_on_auditory_acuity.pdf#page=131)” **Indian Journal of Public Health Research & Development** Vol. 4 , No: 4, pp 123,October 2013.
15. D Jariwala Namrata, Robin A Christian, N Rana Gaurang “[Quantitative Analysis of Actinomycetes from Municipal Solid Waste.](http://search.ebscohost.com/login.aspx?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=09738487&asa=Y&AN=78123997&h=D5RFB98FAtvKHKx70wODd0lpiRtQDUOKrltzYza5VWdYaMLnlwM6FujSoYwWFa3UZzOJvQz3N3jmZCpIRtqI2Q%3D%3D&crl=c)**IUP Journal of Life Sciences**, vol. 6, No. 1, February 2012.

**Paper presented at international conference (Abroad)**

1. To attend & present paper in 2nd**International Conference on Civil and urban Engineering ICCUE 2015 at Florence, Italy during 19th to 20th March 2015** organized by Asia Pacific Chemical, biological and Environmental Engineering Society (APCBEES)

Title of the Paper: Fuzzy Rule Based System Approach for the prediction of Respiratory Abnormalities in Solid Waste Workers (Received Best Paper Award)

1. To attend & present paper at 22ndInternational Interdisciplinary conference on **the Environment at Austin, Texas USA during 28th June 2016 to 30th June 2016** organized by The Interdisciplinary Environmental Association (IEA) USA.

Title of the paper: Ground water Quality of Mahuva Taluka, Surat District (Gujarat) With Focus On Fluoride

1. To attend & present paper in ICCEABME 2017: 19thInternational conference on **the Civil Engineering, Architecture, Building materials and Environment at London, United Kingdom during 23-24th November 2017** organized by World Academy Of Science, Engineering and Technology.

Title of the paper: Comparative Study of Fenton and Activated Carbon Treatment for Dyeing Waste Water

**Chapters in Book:**

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| **Sr. No.** | **Title of the Chapter and Reference book** | **Publishers** | **Year of publication** |
| 1 | Chapter 17  Regional water pollution control strategy for sugar industry  Author Name:  J E M Macwan and N D Jariwala  Book Name:  Environmental Crisis and Techno Economic Alternatives in this | ABD Publishers Jaipur | 2004 |
| 2. | Chapter 3  Fuzzy Rule Based System approach for Pipe Condition Assessment: Case of Surat city  Author Name: Namrata Jariwala and Hemali Tailor  Book Name: Application of soft Computing techniques in Civil Engineering  Page No:41-62 | Viva Books  ISBN:978-87692-99-2 | 2018 |

**Consultancy Project :**

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| **S. No.** | **Name of The Project** | **Sponsoring Agency** | **Amount** | **Year** | **Present Status** |
| 1. | Appointment as Project Consultant for the work of Garden Waste Disposal of S.M.C. regarding Project’s equipment/Machinery Installation, Operation and Maintenance according to Designing of Garden Waste Process Plant | SMC, Surat | Rs.6,00,000/- | March 2019 | On going |
| 2. | Consultancy Services for Kim River Water Quality Study during water canal stoppage/restart condition. | Grasim Industries Limited | Rs. 25,000/- | February 2019 | completed |
| 3. | Consultancy Services for Inspection of Channel and Pipeline in certain section of the channel. (VECL Channel Inspection during Annual Shutdown 2019). | Vadodara Enviro Channel Limited  VECL Resource Management- | Rs.5,35,000/- | May 2019 | completed |
| 4. | Review of existing water treatment efficiency, limitations and exploring scope for advance water treatment at various water works of Surat Municipal Corporation including critical locations like Rander and Katargam Water Works. | SMC, Surat | Rs.11,50,000/- | October 2018 to | Ongoing |
| 5. | Accuracy/ Performance and Vetting of Integrated Fixed Film Activated Sludge (IFAS) Technology | Plasma Enviro Protection Limited, Surat | Rs 10,00,000/- | June 2019 | completed |
| 6. | Design, Construction, Testing & Commissioning of 120 MLD Capacity Water Treatment Plant on Turn-Key basis under SJMMSVY at Dindoli, Surat (IB) Zero Liquid Discharge System for 198 MLD capacity (10 MLD) WTP on Turn-Key basis under SJMMSVY at Dindoli, Surat | Surat Municipal Corporation, Surat | Rs.15,80,614/- | 2017-18 | Completed |
| 7. | Third Party Inspection (TPI) on Visit basis for the work of Extension of Old Sanitary Landfill Cell No.1 at Khajod Disposal Site, Surat under Swachh Bharat Mission. | Surat Municipal Corporation, Surat | Rs.5,00,000/- | 2017-18 | Completed |