

## BIO-DATA OF SMITA GUPTA

- 1. Name:** Dr. Smita Gupta  
**2. Date of Birth:** 03<sup>rd</sup> January, 1981  
**3. Designation:** Assistant professor  
**4. Highest Qualifications:** Ph.D.  
**5. Degree Obtained:**



University	Degree	Year	Field of Specialization
Institute of Engineering & Technology, C.S.J.M. University, Kanpur, U.P.	B. Tech.	2003	Chemical Engineering
H.B.T.I., Kanpur, U.P. Technical University, U.P.	M. Tech.	2006	Bio-chemical Engineering (Chemical Technology)
S.V.N.I.T SURAT	Ph.D.	2014	Chemical Engineering

### 6. Employment Record:.

University	Designation	Period
S.V.N.I.T SURAT	Assistant professor	9 <sup>th</sup> April 2009 TO TILL DATE
Institute of Technology, Nirma University, Ahmedabad, Gujrat	Lecturer	31 <sup>st</sup> May 2008 TO 31 <sup>st</sup> March 2009

### 7. M.Tech. Dissertation Guided/Co-guided

S.No.	Student Name (Admin. No.)	Year of Completion	Title of Thesis
1	Ganesh B. Thorat (P13CH010) (Co- guide)	2015	Study on separation of isopropanol - water mixtures by using poly(vinyl) alcohol composite membranes by pervaporation.
2.	Bhagwan Pralhad Parihar (Guide)	2016	Extraction and Degradation of Endocrine Disrupting Compound Propylparaben from Aqueous Solution by PEHFSD and Photocatalytic Degradation Method

### 8. Consultancy and Sponsored research activities: NA

### 9. Publications: (Total No.)

- i. Papers published in International Journal: (Total No. 7) (**Annexure -i**)

- ii. Papers published in National Journal: (Total No.: Nil) (**Annexure -ii**)
- iii. Papers published/presented in International Conference/Seminar: (Total No.: 3) (**Annexure -iii**)
- iv. Papers published/presented in National Conference/Seminar: (Total No.: 2) (**Annexure -iv**)

**10. Workshops/Summer Schools/ Winter schools/Short term Courses attended: 18**

1. Participated in a short-term course on “Sustainable Water and Waste management Techniques”, conducted by Civil Engineering Department, SVNIT, Surat, from 27<sup>th</sup> – 31<sup>st</sup> July, 2009.
2. Participated in Short-Term Course “Pedagogy & Research Methodology for newly recruited faculty members.” One week from 3-8 August, 2009 SVNIT, Surat.
3. Participated in a short-term course on “Advanced Instrumental Methods of Analysis” at Department of Chemical Engg., SVNIT, Surat during 24<sup>th</sup> - 28<sup>th</sup> August 2009.
4. Participated in a short-term course on “Treatment and Disposal of Wastewaters:”, conducted by Chemical Engineering Department and Civil Engineering Department, SVNIT, Surat, from 5<sup>th</sup> – 9<sup>th</sup> October, 2009.
5. Participated in three day workshop on “ Nanotechnology Applications for Sustainable Development” organized by Chemical Engineering Department, SVNIT, Surat, from 19<sup>th</sup> – 21<sup>th</sup> April, 2013.
6. Participated in a short-term course on “Sustainable waste management techniques”, conducted by Civil Engineering Department, SVNIT, Surat, from 3<sup>th</sup> – 7<sup>th</sup> June, 2013.
7. Attended the Faculty Development Programme on “Research Methodology” organised by SVNIT, Surat, during 10<sup>th</sup>-14<sup>th</sup> June, 2013.
8. Participated in a short-term course on “Advances on wastewater treatment and energy generation”, conducted by Chemical Engineering Department, SVNIT, Surat, from 30<sup>th</sup> Sept.-4<sup>th</sup> Oct. 2013.
9. Participated in a short-term course on “Recent trends in nanomaterial synthesis, characterization and applications”, conducted by Chemical Engineering Department, SVNIT, Surat, from 14<sup>th</sup> – 18<sup>th</sup> October 2013.
10. Participated in a short-term course on “Nanoscale integration, Fabrication and characterization”, conducted by Electronics Engineering Department, SVNIT, Surat, from 21-25 October 2013.
11. Participated in a short-term course on “Green chemistry and engineering: Towards a sustainable future”, conducted by Chemical Engineering Department, SVNIT, Surat, from 18-22<sup>nd</sup> November 2013.

12. Participated in a one-day workshop on “Comsol Multiphysics Modeling ”, conducted by Chemical Engineering Department, SVNIT, Surat, on 6<sup>th</sup> December 2013.
13. Participated in a short-term course on “राजभाषा नियम एवं सॉफ्टवेयर प्रशिक्षण ”, conducted by SVNIT, Surat, from 9-13<sup>th</sup> June 2014.
14. Participated in a short-term course on “Advances in waste management techniques”, conducted by Civil Engineering Department, SVNIT, Surat, from 23-27<sup>nd</sup> June 2014.
15. Participated in a short-term course on “Design of experiment and artificial neural network”, conducted by Chemical Engineering Department, SVNIT, Surat, from 22-26<sup>th</sup> June 2015.
16. Participated in a workshop on “Interfacial Engineering and nanotechnology for sustainability”, conducted by Department of Chemical Engineering, SVNIT, Surat, from 10<sup>th</sup> – 14<sup>th</sup> August 2015.
17. Participated in a workshop on “Science & technology of advanced materials”, conducted by Department of applied physics, SVNIT, Surat, from 21-26<sup>th</sup> August 2015.
18. Participated in a workshop on “Recent Trends in Chemical Engineering”, conducted by Department of Chemical Engineering, SVNIT, Surat, from 11<sup>th</sup> – 15<sup>th</sup> July 2016.

#### 11. Event Organized: 5

Sr. No.	Name of Organizing member	Name of Programme	Dates of Programme
1	Dr. M. Chakraborty & Mrs. Smita Gupta	TEQIP -II sponsored One Day workshop on “ Six-Sigma & Statistical Analytical Tools” delivered by Mr Anup Ku. Das (General Manager, RIL, Hazira)	22 <sup>nd</sup> March 2013
2	Dr. M. Chakraborty & Mrs. Smita Gupta	TEQIP -II sponsored an expert lecture on “ Process Engineering and Design” delivered by Prof S. B. Thakore (L.D. College of Engineering, Ahemedabad)	16 <sup>th</sup> April 2013
3	Dr. M. Chakraborty & Mrs. Smita Gupta	TEQIP-II sponsored One Day workshop on “ How to face an Interview and Group Discussion” by Mr. Somnath Roy Choudhury (General Manager, RIL, Hazira)	9 <sup>th</sup> September 2013
4.	Prof. P.A.Parikh Dr. M. Chakraborty Dr. Smita Gupta	TEQIP-II sponsored STTP on Carbon Neutral Energy Sources	9 <sup>th</sup> to 13 <sup>th</sup> May 2016

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5. Dr. M. Chakraborty, Dr. Smita Gupta, TEQIP-II sponsored “One Day Workshop on How to face interview and group discussion”. 12<sup>th</sup> March 2016
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## 12. Other Information:

**Area of Interest:** Liquid membranes, waste water treatment, bio-chemical engineering.

### **PAPERS PUBLISHED AS CHAPTERS IN INTERNATIONAL BOOKS: 1**

1. Smita Gupta, Mousumi Chakraborty and Z.V.P. Murthy, MEMBRANE SEPARATIONS: Liquid Membranes: An Overview, Elsevier Reference Module in *Chemistry, Molecular Sciences and Chemical Engineering*”, edited by Jan Reedijk, Waltham, MA: Elsevier. 30-Nov-15. DOI: 10.1016/B978-0-12-409547-2.05832-7.

### **Awards Received**

- **Qualify Gate** (Chemical Engineering) in 2004 with 87.52 Percentile.

### **Annexure-i**

#### **(i) Papers published in International Journal: 7**

1. **Smita Gupta**, Mousumi Chakraborty, and Z.V.P. Murthy, Response surface modelling and optimization of mercury extraction through emulsion liquid membrane, *Separation Science and Technology*, Vol.46(No.15) (2011) 2332-2340. (Taylor & Francis Group Publication, USA) (Impact Factor: 1.088)

2. **Smita Gupta**, Mousumi Chakraborty, and Z.V.P. Murthy, Optimization of process parameters for mercury extraction through pseudo-emulsion hollow fiber strip dispersion system, *Separation and Purification Technology*, Vol.114 (2013) 43–52. DOI: 10.1016/j.seppur.2013.04.020 (Elsevier Scientific Publication, USA) (Impact Factor: 3.065)

3. **Smita Gupta**, Mousumi Chakraborty and Z.V.P. Murthy, Removal of Mercury by Emulsion Liquid Membranes: Studies on Emulsion Stability and Scale Up, *Journal of Dispersion Science and Technology*, Vol.34 (No.12) (2013) 1733-1741. DOI: 10.1080/01932691.2013.767205 (Taylor & Francis Group Publication, USA) (Impact Factor: 0.705)

4. **Smita Gupta**, Mousumi Chakraborty, and Z.V.P. Murthy, Performance study of hollow fiber supported liquid membrane system for the separation of bisphenol A from aqueous solution, *Journal of Industrial and Engineering Chemistry*, Vol. 20 (2014) 2138–2145. DOI: 10.1016/j.jiec.2013.09.043 (Elsevier Scientific Publication, USA) (Impact Factor: 3.512)

5. Gedela Ashok Kumar Naidu, **Smita Gupta**, Mousumi Chakraborty, Application of pseudo-emulsion-based hollow fiber strip dispersion for the extraction of p-nitrophenol from aqueous solutions, *Environmental Technology*, (Taylor & Francis Group Publication, USA), Vol. 37(22) (2016) 2924–2934.

6. Shilpa K. Nandwani, Naved I. Malek, V.N. Lad, Mousumi Chakraborty, **Smita Gupta**, Study on interfacial properties of Imidazolium ionic liquids as surfactant and their application in enhanced oil recovery, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, (Elsevier Scientific Publication, The Netherlands) (Impact Factor: 2.760)

7. Bhagwan Pralhad Parihar, Mousumi Chakraborty, **Smita Gupta**, Application of pseudo-emulsion hollow fiber strip dispersion system for the removal of propylparaben from the aqueous solutions, Accepted for publication in *Desalination and Water Treatment*, (Taylor & Francis Group Publication, USA) (Impact Factor: 1.272)

**Annexure: -ii**

(ii) **Papers published in National Journal: Nil**

**(Annexure -iii)**

(iii) **Papers published/presented in International Conference/Seminar: 3**

1. **Smita Gupta**, Mousumi Chakraborty and Z.V.P. Murthy, Influence of Ionic Liquid on the Transport of Bisphenol A from Aqueous Solution through Hollow Fiber Supported Liquid Membrane. Presented at International Conference For Ionic Liquids 2013 (**ICIL 2013**), University of Malaya Kuala Lumpur, Langkawi island, Malaysia, December 2013.
2. Ganesh B. Thorat and **Smita Gupta**, Z.V.P. Murthy, Synthesis and Characterization of Hybrid Membranes Using Poly(vinyl alcohol) and Ionic Liquids for Pervaporation Dehydration of Isopropanol, Paper Presented at the International Conference on Membrane Based Separations (MEMSEP 2015), Organized by the Indian Membrane Society, held at The Maharaja Sayajirao University of Baroda, Vadodara, India, during March 21-23, **2015**. (PP-5) (Page 43)
3. Bhagwan Pralhad Parihar, Mousumi Chakraborty, **Smita Gupta**, Application of pseudo-emulsion hollow fiber strip dispersion system for the removal of propylparaben from the aqueous solutions, Proceedings of EDS's Desalination for the environment: Clean Water and Energy, Marriott Park Hotel, Rome, Italy, Publisher- Taylor & Francis, Page no- 9, May 22-26, 2016. Paper has been accepted for Desalination and Water Treatment.

**(Annexure- iv)**

(iv) **Papers published/presented in National Conference/Seminar: 2**

1. **Smita Gupta** and Rita Kar, Hyper thermostable laccase from sub optimally grown Bacillus cells with dye decolorization property. Presented at “NUCONE-2008” Organized by Nirma University, **Ahmedabad, Gujrat**, India, November 27-29, 2008.
2. **Smita Gupta**, Mousumi Chakraborty, Z.V.P. Murthy, Stability Study of Emulsion Liquid Membrane for the Removal of Bisphenol A from Aqueous

Solutions, *Proceedings* of Trombay Symposium on Desalination and Water Reuse (TSDWR 2015), 22-23 January **2015**, Organized by Board of Research in Nuclear Sciences (BRNS) Government of India & Indian Desalination Association, at Bhabha Atomic Research Centre (BARC), Mumbai. (Eds: P.K. Tewari, R.C. Bindal, H.S. Sodaye, S.A. Tiwari, Saurabh, Saikiran Kaza, Vijay Mantani, Nitesh Goswami), Pp.348-355. **(Received 3rd Best Poster Paper Award)**.