

**Name:** Dr. Niral J. Modi  
**Designation:** Assistant Professor, Chemistry  
**Qualification:** Ph.D. [Chemistry]  
**Experience:** 12 years  
**Area of Interest:** Metal Complexes, Drug, Coordination Chemistry

**Profile:** Dr. Niral J. Modi has done her graduation and post-graduation in Chemistry from M. N. Science College, Visnagar, Dist. Mehsana, Gujarat. She has completed Ph.D. from the Hemchandracharya North Gujarat University, Patan in the field of Chemistry for the title "Solution and Solid State Studies on Bivalent and Trivalent Metal Complexes". She has 12 years of teaching experience. Her research interests include metal complex synthesis, Coordination chemistry.

### **Educational Qualification**

<b>Exam</b>	<b>Name of Board</b>	<b>Month &amp; Year</b>
SSC	GSEB	March, 2000
HSC	GHSEB	March, 2002
B.Sc.(Chemistry)	HNGU	March, 2005
M.Sc.(Chemistry)	HNGU	March, 2007
Ph.D.	HNGU, Patan	January, 2018
CCC+	SPIPA	August, 2011
Hindi mukti	GSEB	March, 2012

### **Skills and Knowledge:**

**Course Taught:** Chemistry, Physical Inorganic Chemistry, Organic Chemistry and Unit Process, Unit Processes and Chemical Technology, Applied Chemistry

### **Training and workshop:**

#### **Coordinator –**

(1) One week training program on "Modern Trends in Characterization Techniques With Hands on Experience" held during 04/11/2019 to 08/11/2019 organized by Chemical Engineering Department and Co-Anchor Institute, L. D. College of Engineering, Ahmedabad.

(2) One week training program on "Environmental Auditing Made Easy: Basics and Analytical Test Procedure" held during 25/11/2019 to 29/11/2019 organized by Chemical Engineering Department, L. D. College of Engineering, Ahmedabad and Gujarat Pollution Control Board.

Attended-Technical training - 13 weeks

<b>Sr. No</b>	<b>Title of Course</b>	<b>From</b>	<b>To</b>	<b>Duration (In Week)</b>	<b>Organizer</b>	<b>Sponsored/ Approved by</b>
1	CAD-Detailed process synthesis-Algorithm methods	17/1/2011	21/1/2011	1	LDCE	Co-Anchor inst. And industrial Commissionerate
2	Computational Techniques for Research in Engineering	18/07/2011	22/07/2011	1	LDCE	ISTE. And industrial Commissionerate
3	Training Programme on Cleaner Production	02/01/2012	06/01/2012	1	LDCE	Co-Anchor inst. And industrial Commissionerate And Forests and Environment Department, Govt. of Gujarat
4	Training Programme on Environment Audit	14/02/2012	18/02/2012	1	LDCE	Co-Anchor inst. And industrial Commissionerate And Forests and Environment Department, Govt. of Gujarat
5	Induction Phase-I	29/04/2013	10/05/2013	2	NITTTR, Ahmedabad	DTE
6	Fluid Dynamics	30/12/2013	3/1/2014	1	LDCE	ISTE
7	Induction Phase-II	07/09/2015	18/09/2015	2	NITTTR, Bhopal	DTE
8	Women Empowerment	26/12/2016	30/12/2016	1	NITTTR, Bhopal	DTE

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9	MOOC Course training on Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts	29/07/2019	18/10/2019	12 (=2 Week)	NPTEL	DTE
10	Modern Trends in Characterization Techniques With Hands on Experience	04/11/2019	08/11/2019	1	LDCE	DTE

**Portfolio:** Institutional- Library

Departmental-Library, Housekeeping, 100 Point Activity, Chemistry Lab In charge

**Expert lectures organized/delivered:** Nil

**SSIP/Research/funded Projects:** Nil

**Academic projects:** NA

**Consultancy:** Nil

**Publications:** International papers- 01

**Details of International papers published**

1. Modi N., Sharma S., Thakkar M. A study on thermodynamic parameters and stability constants of Y(III) and Th(IV) complexes with captopril, International Research Journal of Commerce Business and Social Science (IRJCBSS) Vol V (11(I)), pp. 54-58, 2016.

**Conference - 09**

**Paper presented in Conferences**

1. Modi N., Sharma S., Solution state study on stability and thermodynamic behavior of binary metal complexes of pregabalin, pp. 409-412, ISBN - 978 - 81- 935281 - 7 - 4, 2016.

2. Modi N., Shukla P., Harsh, Hazardous plastic waste management and fuel production by pyrolysis, 28<sup>th</sup> National Convention of Chemical Engineers and National Seminar on Green Technology and Environmental Sustainability, Institute of Engineers(India), Gujarat State Centre, Ahmedabad, 07-08 Sep. 2012.
3. Modi N., Sharma S., Trivedi P., Photo catalytic degradation of Acid Orange-7 using nano meter sized TiO<sub>2</sub> , 2<sup>nd</sup> International Science Congress, Bon Maharaj Engineering College, Vrindavan, Mathura, UP, India, 08-09 Dec. 2012.
4. Modi N., Sharma S., Kadia M., Solution state studies on Thermodynamic parameters and Complexation behavior of Inner transition metal ions with Phenylephrine hydrochloride in aqueous medium at different temperature, 3<sup>rd</sup> International Science Congress, Karunya University, Coimbatore, Tamil Nadu, India, 08-09 Dec. 2013.
5. Modi N., Sharma S., A solution state study on Thermodynamic parameters and Stability of Ternary metal complexes of Y(III) and Th(IV), International Conference on Chemical Sciences in New Era, Pacific Academy of Higher Education and Research University, Udaipur, Rajasthan, India, 05-06 Oct. 2018.
6. Modi N., Sharma S., Comparison of Stability of Binary and Ternary metal complexes of Y(III) with ligand Pregabalin and Piracetam, International Seminar on Recent Trends and Experimental Approaches in Science, Technology, Nature and Management, FDDI, Jodhpur, Rajasthan, India, 23-24 Dec. 2018.
7. Modi N., Solution state study on Stability of metal complexes of Pregabalin and Piracetam, National Conference on Medicinal Chemistry at the Interface of 21<sup>st</sup> Century: An Indian Perspective, V.P. & R.P.T.P. Science College, Vallabh Vidyanagar , Gujarat, India, 28 Jan. 2019.
8. Modi N., Sharma S. Dave R., Comparison of Stability of Binary and Ternary metal complexes of Th(IV), International Conference on Modern Approaches of Chemical Science and Nanomaterials(ICMACSN), Mody University of Science and Technology, Lakshmanagarh, Sikar, Rajasthan, India, 26-27 Aug. 2019.
9. Modi N., Sharma S., Comparison of Stability of Binary and Ternary metal complexes of La(III), 7<sup>th</sup> Asian Network for Natural & Unnatural Materials (ANNUM-VII), Gujarat University, Ahmedabad, Gujarat, India, 27-29<sup>th</sup> Sep. 2019.

**Patent Filed:** Nil

**Professional institution memberships:** Nil

**Awards:** Nil

**Other achievements:** Nil