Curriculum Vitae



Name : Dr. Mayurkumar Chandrakant Shah

Date of Birth : 08-06-1972

Address (Residential) : 14/3 Mohannagar Society, Naroda,

Ahmedabad-382330

Current Position : Professor(Chemistry)(CAS)

Email : mayur@gujaratvidyapith.org

mayurchemistry@yahoo.co.in

Academic Qualifications

Ph.D. (Chemistry) <i>Hemchandracharya</i> North Gujarat University,		2005
	Patan	
M.Sc. (Organic Chemistry)	Gujarat University, Ahmedabad	1995
M.Sc. (Organic Chemistry)	Gujarat University, Ahmedabad	1993
B.Ed. (Maths+Science)	Gujarat University, Ahmedabad	1996
M.Ed. (Evaluation and	Gujarat University, Ahmedabad	1997
Measurement)		
M.Phil. (Education)	Gujarat University, Ahmedabad	1999

Contribution to Teaching

Courses Taught	Name of University /	Duration
	College Institution	
B.Sc.	Department of Microbiology	(Subject: Chemistry)
	M.D.Gramseva Mahavidyalaya, Sadra	1995 to 1998
	DistGandhinagar-382320	(as a visiting faculty)
	(Guiarat Vidyapith, Ahmedabad)	

B.Sc.	Department of Microbiology M.D.Gramseva Mahavidyalaya, Sadra DistGandhinagar-382320 (Gujarat Vidyapith, Ahmedabad)	(Subject: Chemistry) Since July 1998
B.Sc.	Department of Microbiology M.D.Gramseva Mahavidyalaya, Sadra DistGandhinagar-382320 (Gujarat Vidyapith, Ahmedabad)	(Subject: Bio statistics) 2005-06 to 2011-12
M.Sc. (Microbiology)	Department of Microbiology M.D.Gramseva Mahavidyalaya, Sadra DistGandhinagar-382320 (Gujarat Vidyapith, Ahmedabad)	(Subject: Bio statistics) One year(1999-2000)
M.Sc. (Environmental Sciences and Technology)	Department of Microbiology Faculty of Science and Applied Science DistGandhinagar-382320 (Gujarat Vidyapith, Ahmedabad)	(subject: Environmental Pollution, Environmental Chemistry, Industrial Pollution and Control Technology) Since July 2018
Certificate Course on "Analytical Techniques for Soil, Water and Food Materials" (Under Career Oriented Programme)	Department of Microbiology M.D.Gramseva Mahavidyalaya, Sadra DistGandhinagar-382320 (Gujarat Vidyapith, Ahmedabad)	2004-05 to 2009-10
B. Sc. / M.Sc.	Department of Microbiology M.D.Gramseva Mahavidyalaya, Sadra DistGandhinagar-382320 (Gujarat Vidyapith, Ahmedabad)	Udyog * Spining by Ambar Charakha * Production of Puni(Roll of Cotton) * Production of Bath Soap * Production of Biofertilizer * Preparation of Teaching Aids and Experiment Kits (Sciences) Since 2010.

Area of Specialization

Teaching: Organic Chemistry, Analytical

Chemistry, Inorganic chemistry,

Physical chemistry (UG level since 1995)

Research: 1. Metal Complex

2. Water Analysis3. Soil Analysis

4. Natural Acid-Base Indicator

5. Composting

6. Biogas technology

Academic Programme and Courses Evolved

Actively participated in development of structure of curriculum for under graduate course and played key role in formation of syllabus of Chemistry in B.Sc. (Microbiology) course (2018, 2016, 2010, 2008, 2003); Certificate Course under Career Oriented Programme (2004) and M.Phil courses (Chemistry) (2013) in our university. Actively contributed in development of structure of curriculum and contents of selected papers for M.Sc. (Environmental Sciences and Technology) course (2017).

Research Guidance

(A) Ph.D Guidance: 02

Sr.No.	Name of	Topic	University	Degree	Note
	Student			Awarded	
				Year	
1.	Komal P.	Isolation, Identification	Gujarat	2016	Co-Guide
	Acharya	and Optimization of	Vidyapith,		
		Monocrotophos	Ahmedabad.		
		Pesticide Degrading			
		Bacterial Strains			
2.	Kinjal P.	Bacterial fermentation	Gujarat	2016	Co-Guide
	Prajapati	of Madhuca indica	Vidyapith,		
		Cake for Production of	Ahmedabad.		
		Biodiesel			

(B) Projects (UG Level): 55 Students

[Certificate Course on "Analytical Techniques for Soil, Water and Food Materials" under Career Oriented Programme (2004-05 to 2009-10)]

2007-08 to 2009-10

Sr. No.	Name of students	Title of project	
1.	Ankita R. Patel	"Study of Quality Characteristics of Lemon	
		(without peel) of Mansa Taluka"	
2.	Chintan R. Patel	"Study on Physico-Chemical Characteristics	
		of Ground Water of West Region of Talod	
		Taluka"	
3.	Chirag R. Patel	Study of Natural Acid-Base Indicator from	
		flower of Hibiscus rosa sinensis L.	
4.	Dhaval N. Pandya	"Study on Physico-Chemical Characteristics	
		of Ground Water of Palaj Village"	
5.	Gunjan k. Sakhiya	"Study of Natural Acid-Base Indicator from	
		flower of Catharanthus roseus"	
6.	Hemant P. Patel	"Study of Natural Acid-Base Indicator from	
		flower of Argyreia nervosa"	
7.	Hetal G. Kanzariya	"Study on Physico-Chemical Characteristics	
		of Ground Water of Naroda G.I.D.C.Phase-I"	
8.	Hina A. Patel	"Study of Quality Characteristics of Lemon	
		(without peel) of Kalol Taluka"	
9.	Madhuri B. Adhvaryu	"Study of Quality Characteristics of Lemon	
		(without peel) of Kalol Taluka"	
10.	Minaxi R. Patel	"Study on Physico-Chemical Characteristics	
		of Mineral Water of Different Companies"	
11.	Misha V. Patel	"Study on Physico-Chemical Characteristics	
12		of Ground Water of Naroda G.I.D.C.Phase-IV"	
12.	Niral R. Kakani	"Study on Physico-Chemical Characteristics	
12		of Mineral Water of Different Companies"	
13.	Shreya M. Modi	"Study on Physico-Chemical Characteristics	
1.4	C C T D C 1	of Ground Water of Naroda G.I.D.C.Phase-III"	
14.	Smruti K. Patel	"Study of Quality Characteristics of Lemon	
1.5	Caraba W Datal	(without peel) of Mansa Taluka"	
15.	Sneha V. Patel	"Study of Quality Characteristics of Lemon	
16.	Subogi D. Potol	(without peel) of Kalol Taluka"	
10.	Suhagi D. Patel	"Study on Physico-Chemical Characteristics of Ground Water of Naroda G.I.D.C.Phase-II"	
17.	Zalak H. Patel		
1/.	Zaiak n. ratei	"Study of Quality Characteristics of Lemon	
		(without peel) of Mansa Taluka"	

2006-07 to 2008-09

Sr. No.	Name of students	Title of project
1	Jigar J. Prajapati	"Study of Variation in DO values after Collection of Water Sample from Lake"
2	Jil B. Patel	"Study of Water Quality of Pethapur Village for Drinking and Irrigation Purposes"
3	Keera V. Patel	"Study of Quality Characteristics of Cow

		Milk"	
4	Keyur V. Goswami	"Study on Physico-Chemical Characteristics of Ground Water of South Region of Talod Taluka"	
5	Kinjal M. Patel	"Study of Quality Characteristics of Buffalo Butter	
6	Kinjal P. Prajapati	"Study of Quality Characteristics of Buffalo Milk"	
7	Komal P. Acharya	"Study of Quality Characteristics of Lemon (without peel) of Gandhinagar Taluka"	
8	Dipika N. Patel	"Studies on Physico-Chemical Characteristics of Ground Water of South Region of Dahegam Taluka"	
9	Maheshwari M. Ghetiya	"Study of Physico-Chemical Characteristics of Ground Water of Jethlaj Village"	
10	Mihir R. Patel	"Study of Physico- Chemical Characteristics of Water Sample of Magodi village"	
11	Nita K. Prajapati	"Study of Water Quality of Aluva Village for Drinking and Irrigation Purposes"	
12	Pankti T.Patel	"Study of Quality Characteristics of Lemon (without peel) of Gandhinagar Taluka"	
13	Ritika P. Shroff	"Study of Quality Characteristics of Lemon (without peel) of Gandhinagar Taluka"	
14	Sapna D. Patel	"Study of Quality Characteristics of Cow Butter"	
15	Sarita K. Parmar	"Establishment of Correlation Factor between EC and TDS for Ground Water"	
16	Saurin B. Patel	"Study of Variation in DO values after Collection of Water Sample from Bore Well"	
17	Unnati N. Vanjani	"Study of Quality Characteristics of Lemon (without peel) of Gandhinagar Taluka"	
18	Vikram C. Solanki	"Study on Physico-Chemical Characteristics of Ground Water of North Region of Talod Taluka"	
19	Vishal J. Patel	"Study of Variation in DO values after Collection of Water Sample from River"	
20	Yogesh V. Patel	"Study on Physico-Chemical Characteristics of Ground Water of East Region of Talod Taluka"	
21	Zalak R. Patel	"Study of Physico-Chemical Characteristics of Water Samples of Magodi Village"	

2005-06 to 2007-08

Sr. No.	Name of students	03-00 to 2007-08
		Title of project
1	Anilshinh D. Vaghela	"Study on Physico- Chemical Characteristics
		of Soil of North Region of the Dahegam
		Taluka"
2	Amitkumar N. Isadara	"Study on Physico- Chemical Characteristics
		of Soil of East Region of the Dahegam Taluka"
3	Ajaykumar M. Shah	"Study on Physico- Chemical Characteristics
		of Soil of South Region of the Dahegam
		Taluka"
4	Ektabahen A. Desai	"Studies on Physico-Chemical Characteristics
		of Uunder Ground Water of East Region of
		Dahegam Taluka"
5	Ankita J. Acharya	"Studies on Physico-Chemical Characteristics
		of Uunder Ground Water of South Region of
		Dahegam Taluka"
6	Kshama H. Balapure	"Studies on Physico-Chemical Characteristics
		of Uunder Ground Water of West Region of
		Dahegam Taluka"

2004-05 to 2006-07

Sr. No.	Name of Students	Title of Project
1	Avinash Patel	"Study on Water Quality of Prantiya pond"
2	Urji Gor	"Study on Quality of Biogas Slurry"
3	Gopi Patel	"Studies on Physico-Chemical Characteristics of Under Ground Water of East Region of Mansa Taluka"
4	Jaldip Kansara	"Preparation and Physico Chemical Analysis of Compost of Calotropis gigantea with Sheepdung"

5	Devang Upadhyay.	" Preparation and Physico Chemical Analysis		
		of Compost of Calotropis gigantea with Mix		
		dung"		
6	Nirav Parmar	"Studies on Physico Chemical Characteristics		
		of Under Ground Water of South Region of		
		Mansa Taluka"		
7	Neha Pandya	"Studies on Physico Chemical Characteristics		
		of Under Ground Water of North Region of		
		Mansa Taluka"		
8	Vipul Patel	"Preparation and Physico Chemical Analysis of		
		Compost of Calotropis gigantea with buffalo		
		dung"		
9	Sheetal Panchal	"Studies on Physico Chemical		
		Characteristics of Under Ground Water		
		of West Region of Mansa Taluka"		
10	Sumit Kansara	"Preparation and Physico Chemical Analysis of		
		Compost of Calotropis gigantea with goat		
		dung"		
11	Himanshu Patel	"Preparation and Physico Chemical Analysis of		
		Compost of Calotropis gigantea with		
		cowdung."		

(C) Dissertations [M.Sc.(Environmental Sciences and Technology)PG Level]: 01 Student (2018-19)

Sr. No.	Name of Students	Title of Project
1	Dhara K.Markana	Defluoridation from Drinking Water by Plant
		Biosorbents

Books have been published

No.	Name of Book	Year of publication	Publisher	Type of contribution
1.	Chemistry Part-I	03-04-2019	Gujarat State Board of	Translator
	Std-12	મશબ/1219/119-125/છ	School Textbooks,	(Translation
	(Gujarati medium)			from NCERT

			Gandhinagar, Gujarat	Textbook)
2.	Chemistry Part-II	03-04-2019	Gujarat State Board of	Translator
	Std-12	 મશબ/1219/119-125/છ	School Textbooks,	(Translation
	(Gujarati medium)	Date:16-02-2019	'Vidyayan', Sector 10-A,	from NCERT
	,	Date.10-02-2019	Gandhinagar, Gujarat	Textbook)
3.	Chemistry	03-04-2019	Gujarat State Board of	Translator
	Laboratory Manual	 મશબ/1118/1565/છDat		(Translation
	Std-12		'Vidyayan', Sector 10-A,	from NCERT
	(Gujarati medium)	e:02-11-2018	Gandhinagar, Gujarat	Textbook)
4.	Science	03-04-2019	Gujarat State Board of	Reviewer
	Std-10		0 1 1 1 1	
	(Gujarati medium)	(44 () 1213) 113 1237 3	'Vidyayan', Sector 10-A,	
	(Sujuruti incutum)	Date:16-02-2019	Gandhinagar, Gujarat	
5.	Chemistry Part-I	08-03-2018	Gujarat State Board of	Translator
<i>J</i> .	Std-11	મશબ/1218/273/છDate		(Translation
	(Gujarati medium)	:14-03-2018	'Vidyayan', Sector 10-A,	from NCERT
	(Oujaran medium)	.14-03-2016	Gandhinagar, Gujarat	Textbook)
6.	Chamiatery Doet II	08-03-2018		Translator
0.	Chemistry Part-II Std-11	06-03-2018 મશબ/1218/273/છDate	Gujarat State Board of	(Translation
			,	from NCERT
	(Gujarati medium)	:14-03-2018	'Vidyayan', Sector 10-A,	
7	C1	00 02 2010	Gandhinagar, Gujarat	Textbook)
7.	Chemistry	08-03-2018	Gujarat State Board of	Translator
	~	મશબ/1218/275/છDate	,	(Translation
	Std-11	:14-03-2018	'Vidyayan', Sector 10-A,	from NCERT
0	(Gujarati medium)	00.02.2010	Gandhinagar, Gujarat	Textbook)
8.	Science	08-03-2018	Gujarat State Board of	Reviewer
	Std-9	મશબ/1218/272/છ	School Textbooks,	
	(Gujarati medium)	Date:14-03-2018	'Vidyayan', Sector 10-A,	
			Gandhinagar, Gujarat	
9.	Science	08-03-2018	Gujarat State Board of	Reviewer
	Std-8	GCERT/C&E/	School Textbooks,	
	(Gujarati medium)		'Vidyayan', Sector 10-A,	
			Gandhinagar, Gujarat	
10.	Science	08-03-2018	Gujarat State Board of	Reviewer
	Std-7	GCERT/C&E/	School Textbooks,	
	(Gujarati medium)	2018/5808/Date-07	'Vidyayan', Sector 10-A,	
		-03-2018	Gandhinagar, Gujarat	
11.	Science	08-03-2018	Gujarat State Board of	Reviewer
	Std-6	GCERT/C&E/	School Textbooks,	
	(Gujarati medium)	2018/5808/Date-07	'Vidyayan', Sector 10-A,	
		-03-2018	Gandhinagar, Gujarat	
12.	Environment	08-03-2018	Gujarat State Board of	Reviewer
	Std-3	GCERT/C&E/	School Textbooks,	
	(Gujarati medium)	2018/5808/Date-07	'Vidyayan', Sector 10-A,	
	3	-03-2018	Gandhinagar, Gujarat	
13.	Tobolohukon	Oct-2016	Gujarat Vidyapith,	Author
			J J,	

	chhu?	ISBN:978-93-8509	Ahmedabad	
	(Periodic table	1-17-9		
	elements based			
	puzzles)			
	,	21 02 2011		-
14.	Paryavarn	31-03-2014	Gujarat State Board of	Reviewer
	(Mari Aaspas)	GCERT/C&E/2014	· ·	
	Std-3		'Vidyayan', Sector 10-A,	
	(Teacher Edition) (Sem-I, II)	014	Gandhinagar, Gujarat	
15.	Paryavarn	31-03-2014	Gujarat State Board of	Reviewer
13.	(Amari Aaspas)	GCERT/C&E/2014		Reviewei
	Std-4		'Vidyayan', Sector 10-A,	
		014	Gandhinagar, Gujarat	
	(Sem-I, II)		Sunaminagar, Sujarar	
16.	Paryavarn	31-03-2014	Gujarat State Board of	Reviewer
	(Sauni Aaspas)	GCERT/C&E/2014		
	Std-5	/8860/Date-25-04-2	'Vidyayan', Sector 10-A,	
	(Teacher Edition)	014	Gandhinagar, Gujarat	
	(Sem-I, II)			
17.	Paryavarn	31-01-2014	Gujarat State Board of	Reviewer
	(Mari Aaspas)	GCERT/C&E/	School Textbooks,	
	Std-3	2014/2222/Date-03	'Vidyayan', Sector 10-A,	
	(Sem-I, II)	-02-2014	Gandhinagar, Gujarat	
18.	Paryavarn	31-01-2014	Gujarat State Board of	Reviewer
	` 1 /	GCERT/C&E/	School Textbooks,	
	Std-4	2014/2222/Date-03	'Vidyayan', Sector 10-A,	
	(Sem-I, II)	-02-2014	Gandhinagar, Gujarat	
19.	Paryavarn	31-01-2014	Gujarat State Board of	Reviewer
	(Sauni Aaspas)	GCERT/C&E/	School Textbooks,	
	Std-5	2014/2222/Date-03	'Vidyayan', Sector 10-A,	
	(Sem-I, II)	-02-2014	Gandhinagar, Gujarat	
20.	Rasayanvigyan ni	2012	Vikram A Sarabhai	Translator
	maja(ISBN:		Community Centre,	
	978-93-80580-13-5)		Ahmedabad	
21.	Experimental	11-11-2011	Gujarat State Board of	Reviewer
	Book:		School Textbooks,	
	Science and		'Vidyayan', Sector 10-A,	
	Technology		Gandhinagar, Gujarat	
	Standard 10			
22.	Science and	11-11-2011	Gujarat State Board of	Author
	Technology	(Implemented from		Translator
	Standard 10	Jun-2012)	'Vidyayan', Sector 10-A,	(For Gujarati
22	CI.	11 12 2012	Gandhinagar, Gujarat	Medium)
23	Chemistry	11-12-2012	Gujarat State Board of	Author and

	(Self-Learning Book) Standard-12 (Semester-IV)	Implemented Dec-2012	from	School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Translator
24.	Chemistry (Self-Learning Book) Standard-12 (Semester-III)	01-04-2012 Implemented June-2012	from	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author and Translator
25.	Chemistry (Self-Learning Book) Standard-11 (Semester-II)	11-11-2011 (Implemented Dec-2011)	from	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author and Translator
26.	Chemistry (Self-Learning Book) Standard-11 (Semester-I)	01-08-2011 Implemented August-2011	from	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author and Translator
27.	Chemistry(Text Book) Standard-12 (Semester-IV)	01-08-2012 (Implemented Dec-2012)	from	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author Translator (For Gujarati Medium)
28.	Chemistry(Text Book) Standard-12 (Semester-III)	11-11-2011 (Implemented June-2012)	from	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author Translator (For Gujarati Medium)
29.	Chemistry(Text Book) Standard-11 (Semester-II)	20-07-2011 (Implemented Dec-2011)	from	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author Translator (For Gujarati Medium)
30.	Chemistry(Text Book) Standard-11 (Semester-I)	01-01-2011 (Implemented June-2011)	from	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author Translator (For Gujarati Medium)
31.	User Friendly Manual of Biogas (English medium)	January,2010		Gujarat Vidyapith, Ahmedabad	Author

32.	Experimental Book: Science and Technology Standard 6	March,2009	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Reviewer
33.	Biogas Labharthi Pustika (Gujarati medium)	February,2008	Gujarat Vidyapith, Ahmedabad	Author
34.	Science and Technology Standard 7	06-03-2007 (First Edition)	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author/ Reviewer
35.	Exercise for Self Learning: Chemistry Part-1,2 Standard 12 (English medium)	20-11-2006 (First Edition)	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author
36.	Exercise for Self Learning: Chemistry Part-1,2 Standard 12 (Gujarati medium)	20-11-2006 (First Edition)	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author
37.	Exercise for Self Learning: Science and Technology Standard 10 (Gujarati medium)	12-07-2006 (First Edition)	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author
38.	Science and Technology Standard 6	02-05-2006 (First Edition)	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author/ Reviewer
39.	Science and Technology Standard 5	02-05-2006 (First Edition)	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author/ Reviewer
40.	Module for Teacher Training Programme (Science and Technology) Standard 10 (Gujarati medium)	(First Edition)	Gujarat State Board of School Textbooks, 'Vidyayan', Sector 10-A, Gandhinagar, Gujarat	Author
41.	Chemistry Part-2	01-02-2005	Gujarat State Board of	Reviewer

Standard 12	(First Edition)	School Textbooks,	
(Gurati medium)		'Vidyayan', Sector 10-A,	
		Gandhinagar, Gujarat	

Papers have been published

- Surendra N. Gohil, Prateek G. Shilpkar, **Mayur C. Shah**, Amitkumar J. Shah and Pradip B. Acharya, Methane from Human Excreta: Comparative Assessment of Batch and Continuous Biomethanation Process, *J Pure Appl Microbiol*, 12(4), 2143-2148 **Dec. 2018** (http://dx.doi.org/10.22207/JPAM.12.4.52)
- Komal M Acharya, Prateek Shilpkar and **Mayur C Shah**, Degradation of Monocrotophos in Soil by *Bacillus subtilis* KPA-1 and its Effect on Soil Properties, *Pesticide Research Journal* Vol. 30(2): 210-218, **December 2018**, doi: 10.5958/2249-524X.2018.00033.X
- Acharya Komal, Shilpkar Prateek and **Shah Mayur C**, Effect of monocrotophos and Bacillus subtilis KPA-1 on greengram (Vigna radiata), *Current Advances in Agricultural Sciences*, Volume: 9(1):64-69, 2017
- Komal P. Acharya, Prateek Shilpkar and **Mayur C. Shah**, Optimization Study of Esterase Production by Monocrotophos Degradation Bacterium *Bacillus subtilis KPA-1*, Journal of Pure and Applied Microbiology, Vol. 10(3), 2079-2087, Sept. 2016.
- **Mayur C. Shah**, Ankit M.Patel and Prateek G Shilpkar, Ground Water Quality Analysis of Palaj Village, Gujarat. *Vidyapith* 4: 100-109, 2015
- Mayur C. Shah, Devang N. Upadhyay and Prateek G Shilpkar, Composting of *Calotropis gigantea* Leaves using Mix Dung of Buffalo, Cow, Goat and Sheep. *Current World Environment*, 10(3):1044-1047,2015
- K.P. Acharya, P.Shilpkar, **M.C.Shah**, P.Chellapandi, Biodegradation of Insecticide monocroto -phos by *Bacillus subtilis* KPA-1, Isolated from Agriculture Soils. Applied Biochemistry and Biotechnology , 175: 1789-1804,2015
- **Mayur C.Shah,** Use of *Ipomea Aqatica* Flower as Neutralisation Indicator. *International Journal of Chemical Science*, 13(1): 362-366, 2015
- **Mayur C. Shah**, Sumit R.Kansara and Prateek G Shilpkar, Suitability of goat and Calotropis gigantea Leaves for Composting, *International Journal of Chemical Science*, 13(1): 519-524, 2015
- **Mayur C. Shah**, Jaldip C.Kansara and Prateek G Shilpkar, Composting of Calotropis gigantea Leaves in Presence of Sheep Dung. *Current World Environment*, 10(1): 281-284,2015
- Mayur C. Shah, Hemant P. Patel and Prateek G Shilpkar, Water Extract of *Argyreia Nervosa* Flower: Green Neutralisation Indicator. *Pollution Research*, 34(1):171-173,2015.

- Prajapati kinjal P., Shilpkar Prateek, **Shah Mayur C.**, Optimization of Fermentation condition for the Extraction of Oil from De-oiled cake of *Madhuca indica* by newly isolated Microbacterium Sp. KPP-1 Strain. *Research journal of Chemistry and Environment*, 19(1):32-38,2015
- Khanji Najarana, Shilpkar Prateek, **Shah Mayur**, Comparison of soil physico-chemical, microbial and enzymatic properties in organically and inorganically managed soils at pre and post harvest stages of *Coriandrum sativum* crop. *Pollution Research*, 34(1):187-190,2015.
- **Mayur C. Shah**, Vipul R. Patel and Prateek G Shilpkar, Changes in chemical characteristics during composting of *Calotropis gigantea* leaves. *Ecology, Environment and Conservation*, 21(suppl): S255-S258, 2015
- **Mayur C. Shah**, Sarita K. Patel and Prateek G Shilpkar, Establishment of correlation factor between total dissolved solids and electrical conductivity for groundwater quality analysis. *Ecology, Environment and Conservation*, 21(2):929-932, 2015
- **Mayur C. Shah**, Himanshu K Patel and Prateek G Shilpkar, Composting of *Calotropis gigantea* leaves. *Pollution Research*, 34(2):363-366,2015.
- **Mayur C. Shah**, Chirag R. Patel and Prateek G Shilpkar, Water extracts of *Hibiscus rosa sinensis* L. flower: Eco-friendly acid-base indicator. *Bioscience Guardian*, Volume- 4(2): 197-200, December 2014.
- **Mayur C. Shah**, Gunjan K. Sakhiya and Prateek G. Shilpkar, Study to find out suitability of water extract of *Catharanthus roseus* flowers as indicator for acid-base titrations. *Ultra Chemistry*, 10 (3) 141-144, 2014
- Kinjal P. Prajapati, Prateek Shilpkar, **Mayur C. Shah** and Kaushik R. Patel, Fermentative production of alcohol from *Madhuca indica* flower and its cake by *Kluveromyces marxianus*. *Journal of Pure and Applied Microbiology*, Vol. 7 (4): 3243-3246, December 2013,
- **M. C. Shah**, K. R. Modi and S. M. Patel, Seasonal changes in microbial community structure and nutrients content in rhizospheric soil of *Aegle marmelos* tree. *Annals of Forest Research*, Vol 53 (2): 135-140, 2010
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Participated and presented papers in International/ National/ State level

Seminar / Conference / Symposium: 22

Sr.	Name of	Duration	Place	Presented
No.	Programme			Research Paper
1.	એક દિવસીય રાજય	17-3-2019	ગાંધી અધ્યયન વિદ્યાશાખા અને	(1)પવિત્ર ફુલો દ્વારા જળશયોને
	સ્તરીય પરિસંવાદ:		NSS એકમ, ગૂજરાત વિદ્યાપીઠ,	અપવિત્ર થતા રોકવાનો શ્રેષ્ઠ ઉપાય:
	ગાંધીજી અને સ્વચ્છતા		અમદાવાદ	જૈવિક વિધટન
				(2)કુદરતી સ્રોતોને પ્રદૃષિત થતા
				રોકવામા શૌયાલય આધારિત
				બાયોગેસ પ્લાન્ટની ભૂમિકા
				(as a co author)
2.	State Level	15-12-2018	C.U.Shah Science College,	Study of Water Quality of
	Seminar on Young		Ahmedabad	Village for Drinking Purpose
	Chemical			(as a Principal author)
	Scientist Conclave			
3.	International	05-11-2017	School of Sciences	Biogas Generation
	Symposium on		P P Savani University	Potential of Tagetes
	Emerging		Kosamba(Dist.Surat)	(Marigold)Flowers
	Biological Trends			(as a coauthor)
	in 21 st Century			

4.	National Seminar on Water and Waste Water Technology (WWT-2016)	22-02-2016	Department of Environmental Studies, Faculty of Science The M.S. University of Baroda, Vadodara	(1) Assessment of Ground water Quality of Bhimgadh Village for Drinking Water (2) Determination of Ground water Quality of South Region of Vadhvan Taluka for Irrigation Purposes
5.	UGC-CAS Sponsored National Seminar on Innovations and Emerging Dimensions in Chemical Science Research (IEDCSR-2016)	20-02-2016	Department of Chemistry Sardar Patel University Vallabh Vidyanagar, Gujarat	Correlation and Regression Analysis of Ground Water Quality Parameters of Prantij Taluka, Gujarat
6.	UGC Sponcered National Seminar on Chemical Sciences in Present Scenario (CSIPS-2016)	08-01-2016 to 09-01-2016	Department of Chemistry & Industrial chemistry V.P & R.P.T.P Science college Vallabh Vidyanagar, Guajrat	Determination of water quality Index(WQI) of ground Water of Pethapur Village, Gujarat
7.	International Conference on Recent Trends in Applied Sciences: Building the Institutional and Industrial Avenues (ICRTAS-2015)	10-12-2015 to 12-12-2015	Shri A.N . Patel Post Graduate Institute, Anand	(1) Variation in dissolved oxygen after the collection of water samples (2) Screening of bacteria isolates having capacity to degrade monocrotophos (3) Identification of potent oil extracting bacteria culture from Madhuca indica cake
8.	UGC sponsored State Level Seminar on Green Chemistry for the Environment	12-01-2015	Department of Chemistry, K.K.Jarodwala Maninagar Science College , Ahmedabad	Study of Physico-Chemical Characteristics of Water Samples of Magodi village for Drinking and Irrigation Purposes
9.	National seminar on Chemistry for Sustainable	27-12-2014 To 28-12-2014	Department of Chemistry, M.G.Science Institute,	Total Dissolved Solids and Fluoride Content Status of

	Development		Ahmedabad	Ground Water of Talod Taluka of Gujarat, India
10.	National Conference on 'Latest Developments in Basic and Applied Sciences'	10-01-2015	M.B.Patel Science College, Anand	Study of Water Quality of Aluva Village for Drinking and Irrigation Purposes
11.	31st Annual Conference(Indian Council of Chemistry)	26-12-2012 to 28-12-2012	Department of Chemistry,Saurashtra University, Rajkot	Extract of <i>Catharanthus</i> roseus <i>L</i> Flower: Natural Acid-Base Indicator
12.	First International Science Congress	24-12-2011 to 25-12-2011	Maharaja Ranjitsingh College of Professional Sciences, Indore(MP)	Extract of <i>Hibiscus rosa-</i> <i>sinensis L</i> Flower: Natural Acid-Base Indicator
13.	An International Conference on Emerging Trends in Chemistry	05-01-2010 to 07-01-2010	Department of Chemistry, University of Pune, Pune	TDS and Fluoride content Status of Ground Water of Gandhinagar District of Gujarat, India.
14.	Annual Conference of Indian Council of Chemists	07-11-2009 to 10-11-2009	Department of Chemistry,Hemchandrac harya North Gujarat University, Patan	Establishment of Correlation Factor between TDS and EC for Groundwater.
15.	International Conference on "Education for Sustainable Development"	14-09-2007 to 16-09-2007	Dada Dukhayal College of Education, Adipur, Kachchh, Gujarat	Nutrients Status of Soil: Effect of Organic Fertilizers
16.	Two Day's Seminar on Trends in Modern Chemistry Perspectives	19-01-2007 to 20-01-2007	Department of Chemistry, Hemchandracharya North Gujarat University, Patan	Corrosion Inhibition of Coated Steel
17.	UGC Sponsored State Level Seminar Water Quality and Major Water Problems in Gujarat State	26-08-2006 to 27-08-2006	Department of Chemistry, R.R.Mehta College of Science and C.L.Parikh College of Commerce, Palanpur	Study on Water Quality of Dharoi Dam for Drinking and Irrigation Purposes

19.	National Seminar on Recent Development in Chemistry 2 nd International Congress of Chemistry and Environment	31-01-2006 24-12-2005 to 26-12-2005	Department of Chemistry, Hemchandracharya North Gujarat University, Patan The Emerald Height International School Indore, India Organized By Research Journal of Chemistry and	Determination of Water Quality Index (WQI) of Pond in Prantiya Village Best From Waste: Biomethanation of Calotropis gigantea
20.	UGC Sponsored State Level Seminar on Recent Advances in Coordination Chemistry	23-09-2005 to 24-09-2005	Environment Department of Chemistry, Smt.S.M.Panchal Science College,Talod-383 215	Solid Isolation and Characterization of Some Binary Complexes of Transition(II) Metals
21.	National Symposium on Future Challenges in Chemical Sciences	09-03-2005 to 11-03-2005	Department of Chemistry, Himachal Pradesh University, Shimla-171 005	Studies on Antimicrobial Activities of Transition Metal(II) Chelates
22.	National Conference on Emerging Trends in Chemical Sciences in the New Millenium	05-02-2004 to 07-02-2004	The Post Graduate Department of Chemistry, Shri Shivaji Science College ,Amravati (Maharashtra)	(1)Equilibrium Studies on Some Mixed Ligand Complexes of Cu(II)+ Diamine+ Salicylic Acid (2)Kinetic and Mechanism of Oxidation of Some Hydroxy Esters by Quinolinium Chlorochromate in Aqueous Media

Participated in Workshops/Training Programme

Sr.	Name of Programme	Duration	Place
No.			
1.	One Week Short Term	14-05-2018	Department of Chemical
	Training Programme on	to	Engineering, University
	'Advanced Industrial Waste	19-05-2018	Institute of Chemical
	Management Techniques'		Technology,North maharashtra
			University, Jalgaon
2.	Workshop on 'Wastewater	12-03-2018	Centre for continuing
	from Characterization to	to	Education, Nirma University,

	Treatment'	14-03-2018	Ahmedabad
3.	Training for NSS	05-09-2017	Empanlled Training Institute,
	Programme Officer	to	NSS, Gujarat Vidyapith,
		11-09-2017	Ahmedabad
4.	Short Term Course on	12-09-2016	UGC- Human Resource
	E-Content Development	to	Development Centre,
		18-09-2016	Ahmedabad
5.	Research Methodology	05-06-2016	Department of Microbiology
	Workshop	to	Gujarat Vidyapith, Sadra
	(Multidisciplinary)	10-06-2016	
6.	Faculty Improvement for	18-06-2015	Department of chemical
	Research in Science and	То	Sciences
	Technology-2015	24-06-2015	North Maharashtra University
			Jalgaon
7.	Workshop on Integrating	16-01-2015	Majhihira National Basic
	handicraft with Education	To	Educational Institute, Majhihira,
0	OTO IOT 01.11	19-01-2015	Purulia, West Bengal
8.	STC on ICT Skill	08-12-2014	Academic staff College,
	Improvement	to 14-12-2014	Ahmedabad
			77 7
9.	One day Regional	21-11-2014	University-Industry Linkage cell
	Workshop on Rheology:		of HNGU, Patan and Anton
	Advanced Rheological		Paar, India Pvt. Ltd.
	Characterization		
10.	UGC Sponcered Short Term	03-03-2014	Department of Physics,
10.	Training School on X-Ray	to	Sardar Patel University, Vallabh
	Diffraction Techniques	08-03-2014	Vidyanagar, Gujarat
	Diffraction Techniques		, rayunugur, Oujurur
11.	Rashtriy Nai Talim Jivan	18-11-2013	Gujarat Vidyapith, Ahmedabad
	Vishayak Mukt Adhyyan	to	
	Strot Nirman Karyshala	22-11-2013	
12.	Faculty Development	25-03-2013	Academic staff College, Pune
12.	Programme in the Subject of	to	readenine starr conege, rune
		30-03-2013	
	Chemistry for	50 05 2015	
	College/University Teachers		
13.	Staff Development	15-06-2012	Department of Nanoscience and
	Programe on recent	to	Nanotechnology, School of
	advances in Nanoscience	30-06-2012	Chemical Technology, North
	and Nanotechnology		Maharashtra University, Jalgaon

14.	Eighteen International	31-01-2012	Training School, Homibhabha
	Symposium and Workshop	То	National Institute, Mumbai
	on Thermal Analysis	04-02-2012	
15.	Workshop on Modern	14-09-2006	Shree S.K.Patel College of
	Analytical Techniques	to	Pharmaceutical Education and
		15-09-2006	Research, Ganpat University,
			Kherva
16.	National level Workshop on	11-10-2002	Department of Chemistry,
	Micro Level Laboratory	to	Hemchandracharya North
	Techniques	13-10-2002	Gujarat University, Patan

Only Participated in International/ National/ State level (Seminar /Conference / Symposium):

Sr. No.	Name of Programme	Duration	Place	Presented Research
				Paper
1.	One Day Seminar on 'Environmental Impact Assessment'	22-03-2019	Department of Environmental Studies, faculty of Science, M.S. University of Baroda	Attended
2.	National Conference 'Medicinal Chemistry at the interface of 21st Century:An Indian Perspective'	28-01-2019	V. P. & R.P.T.P Science College, Vallabh Vidyanagar	Attended
3.	State NSS day Celebration	22-09-2017 to 24-09-2017	KSKV Kachchh University, Kachchh	Attended
4.	XXXI Gujarat Science Congress 2017	04-02-2017 to 05-02-2017	Pandit Deendayal Petroleum University, Gandhinagar	Attended
5.	State Level Seminar on College Science Education: Challenges and Opportunities	04-09-2004	Department of Life sciences, Hemchandracharya North Gujarat University, Patan	Attended
6.	National Seminar On Modern Trends in Chemical Sciences in the New Millenium	27-02-2004 to 28-02-2004	Chemistry Department Gujarat University Ahmedabad	Attended
7.	Organic Farming Meet	04-05-2005 to 05-05-2005	Vishvmangalm Anera	Attended

8.	Gujarat Science Congre	s 26-03-2006	AMA Hall, ATIRA	Attended
	2006		Campus,	
			Ahmedabad	
9.	Annual Meet of Nai Tali	n 15-01-2007	Gandhi vidyapith	Attended
	Sangh	to	At-vedachhi	
	_	17-01-2007	DistSurat	

Attended Orientation Programme / Refresher Course

Sr.No.	Name of Programme	Duration	Place	
1	Orientation	26-06-2000	Academic Staff College	
	Programme	to	Saurashtra University,	
		23-07-2000	Rajkot	
2	Refresher Course in	26-11-2001	Department of chemistry	
	Chemistry	to	Sardar Patel University	
		16-12-2001	Vallabh Vidyanagar	
3	Refresher Course in	01-02-2007	Academic Staff College	
	Chemistry	to	Gujarat University	
		22-02-2007	Ahmedabad	
4	Refresher Course in	09-02-2009	Academic Staff College	
	Chemistry	to	Gujarat University	
		01-03-2009	Ahmedabad	

Projects Completed

No	Title of Projects	Duration	Funding Agency	Amount
1	Study on Quality of water and Soil of Kalol and Gandhinagar Taluka, Gujarat (Fifteen water quality parameters were studied)	April-2006 to September- 2006	Gujarat Vidyapith Under the Programme of Extension Activities (X th Plan)	6958=00
2	Study on Quality of water and Soil of Dahegam Taluka, Gujarat (Fifteen water quality parameters were studied)	October-20 06 to March-200 7	Gujarat Vidyapith Under the Programme of Extension Activities (X th Plan)	6834=00

3.	To find out reason behind better-health of organically farmed soil compared to inorganic one. (Foldscope Project)	Apr-2018 to Sep-2019	Department of Biotechnology, Ministry of Science & Technology, Government of India	8.0 Lakh
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Radio Serial developed and delivered Radio Talk

Sr. No.	Writing	Duration	Note
1.	Developed 26 scripts for Radio Serial 'Aho!Rasayan' in Gujarati language. It was aired on Akashwani in Gujarat	Six month from 2 nd January,2012	It was part of the celebration of International Year Of Chemistry(2011)
2.	Developed 26 scripts for Radio Serial 'Paramanu Yatra' in Gujarati language. It was aired on Akashwani in Gujarat	From 17 th November 2014 to 18 May 2015	It was part of the celebration of Hundred years of Atom

Achievement of Award

Sr. No.	Award	Awarded by (Agency)	Presented by (Person)
1.	GSA-L.J. Institutes Undergraduate	Gujarat Science	Hon. Mr. Vijay Rupani
	Chemical Sciences Teacher Award for	Academy	(Chief Minister of
	the Year-2016 (Date:04-02-2017)		Gujarat)

Organized Workshop/ Training under Fold scope project as a Organizing Secretary / Co-Principal Investigator

Sr.	Name of Programme	Duration	Place	Participants
No.				
1.	One Day State Level	09-09-2018	Department of	College
	Workshop on Assembly &		Biogas Research and	Teachers and
	Use of Foldscope		Microbiology,	students
			Gujarat Vidyapith,	(Microbiology)
			Sadra	`
2.	Fold scopeની રચના અને તેની	18-01-2019	નરહૃરિ પરીખ	બુનયાદી પ્રાથમિક
	ઉપયોગીતા		આશ્રમશાળા,	અને માધ્યમિક
			મુ.પોઅમલસાડી	શાળાઓમાં વિજ્ઞાન
			(તા. પલસાણા,જિ.સુરત)	વિષય શીખવતા
				શિક્ષકો માટે
3.	National Workshop On	05-03-2019	Department of	College
	Assembly & Application of	to	Biogas Research and	Teachers /

Foldscope	06-03-2019	Microbiology,	Research
		Gujarat Vidyapith,	Scholars /
		Sadra	PI-Foldscope
			Project /JRF

Lectures Delivered (National/Local level Programmes)

- 1. Delivered talk on 'Science Extension Activity through Foldscope' during National Workshop on Foldscope-Twining Programme for Outreach & Rresearch Activity at Anandaram Dhekial Phookan College, Nagaon, Assam (25-02-2019)
- 2. Delivered talk on 'Scope of Foldscope' during A One Day Workshop on "Biotechnological Potential on Usage of Foldscope" at Department Of botany, kakching Khunou College, Umathel, Manipur (26-03-2019)
- 3. Served as a **Key Resource Person** in Secondary & Higher Secondary Teachers' Training Programmes conducted by Gujarat Government
- 4. Delivered popular lecture on 'Non Formal Education' (Talati Training Centre, Sadra; PTC College, Chiloda)
- 5. Demonstrated **experiments of basic sciences** in Government Primary Schools of approximate **48 villages**(During Padyatra)
- 6. Played a role of Judge in **Science Fair** organized by Gujarat Government at school level (10 times)
- 7. Delivered lecture with demonstration 'Soil Analysis' at Pramukhswami Science College, Kadi
- 8. Played a role of Judge in National Children Science Congress organized by GUJCOST and Kendriy Vidyalaya (2 times)

Committee Member

- 1. Member, Governing Council of Gujarat Vidyapith, Ahmedabad. (From 15th Feb 2014 to 14th Feb 2015).
- 2. Member, Academic Council of Gujarat Vidyapith, Ahmedabad. From 1st June to 31st May 2016).
- 3. Member, Preparation of NAAC Report, Gujarat Vidyapith, Ahmedabad (2014).
- 4. Member, Board of Studies(Chemistry), Gujarat Vidyapith, Ahmedabad (Since 1998)
- 5. Involved in more than two local (Departmental) committees every year.
- 6. Evaluation, Academic Schedule, Admission, NSS, Purchase

Administrative Work:

- 1. In charge of chemistry Laboratory
- 2. Programme Officer, NSS (Rotation wise)
- 3. Incharge of Exam Center at where final exams are held (Microbiology Department, Sadra) (Rotation wise)
- 4. Coordinator, Orientation Programme for Students (New Comers)(Rotation wise)
- 5. Preparation of Departmental AQAR

Membership in Professional and other Bodies

- 1. Life Member, Indian Science Congress Association, Kolkata
- 2. Life Member, Indian Thermal Analysis Society, BARC, Mumbai

Extension Activities

- 1. During NSS camp
- 2. During Padyatra
- 3. During special Occasions: Gandhi Katha (2013)