

Dr. Alka A. Mungray

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Research Interest: Membrane separation process, Wastewater treatment, Microbial fuel cell (MFC), Polymer nanocomposite, Polymer degradation, Forward osmosis (FO), Osmotic microbial fuel cells (OMFCs).

Citations Records: Citations: 232 (Google Scholar Citations: as on 07-06-16), h- index: 8

Academics details

University	Degree	Year	Field of Specialization
Sardar Vallabhbhai National Institute Technology (SVNIT), Surat-Gujrat	Ph.D.	2009	Membrane separation technology and heavy metals removal from Wastewater
Maharaja Sayajirao University, (M.S.U.), Baroda, Gujrat	M. E.	2004	Polymer Technology (Chemical Engineering)
V.V.P. Engineering College, Saurashtra University, Rajkot, Gujrat	B. E.	2002	Chemical Engineering

Employment Record:.

University	Designation	Period
S.V.N.I.T SURAT	Assistant Professor	13 th March 2009 TO TILL DATE

Research projects (1 Completed, **2 ongoing**) (Annexure -1)

Publications: (Total No =40)

- i. Papers published in SCI/SCIE Journals: **(23)** (Annexure -2)
- ii. Papers published in International Conference/Proceedings: **(14)** (Annexure-3)
- iii. Papers published in National Conference/Proceedings: **(3)** (Annexure -4)

No. of Expert lecture Delivered: **(4)** (Annexure -5)

No. of Summer/Winter schools/Training programs Organized: **(2)** (Annexure -6)

No. of Seminar/Conference/Workshop/Networking programme organized: **(2)** (Annexure -7)

Membership of Technical Societies: **(4)** (Annexure -8)

Ph.D. Supervision: **(4 ongoing)** (Annexure -9)

M.E./M.Tech. Dissertations Guided: **(9 completed, 1 ongoing)** (Annexure -9)

Paper Reviewer in International Journals **(13)** (Annexure -10)

Workshops/Summer Schools/ winter schools/Short term Courses attended **(23)** (Annexure -11)

Administrative & Community Services **(16)** (Annexure -12)

Annexure: 1

Research Activities: (Excluding M. Tech. Dissertation & Ph.D. works)

Sr. No.	Degree Registered/Project under taken	Duration		University/Sponsoring Authority	Funds Sanctioned	Present Status
		From	To			
1.	<p><i>“Application of Benthic Microbial Fuel Cell (BMFC) for powering Naval Sensors”.</i></p> <p>Principal Investigator: Dr. A. K. Mungray;</p> <p>Co-Investigator; Dr. Alka A. Mungray & Dr. K. Suresh Kumar</p>	2014	2017	Naval Research Board (NRB), Defence Research and Development Organisation (DRDO) Bhavan, New Delhi, India	23.198 Lacs	On going
2.	<p><i>“A revolutionary approach for regeneration of graphene based membrane and draw agent in UASB-EFO (Up flow anaerobic sludge blanket-Electric field attached, Forward Osmosis) for the production of pure water from municipal wastewater”.</i></p> <p>Principal Investigator: Dr. Alka A. Mungray</p>	2013	----	R & D Grant of the SV NIT Institute for Assistant Professors	9.70 Lacs	On going
3.	<p><i>“Synthesis of antifouling FO membrane from bio-route prepared nanoparticle coating.”.</i></p> <p>Students: Abhishek Kumar and Mohit sharma Supervisors: Dr. Alka A. Mungray & Dr. Suban Sahoo</p>	2013	2014	R & D project grant of the SVNIT Institute for UG student	Rs. 50,000/	Completed

Annexure: 2

Papers published in SCI/SCIE Journals: (23)

Sr. No.	Name of Journal	Volume & Page No.	Year	Title
1.	Chemical Product and Process Modeling , (The Berkeley Electronic Press, USA / Walter de Gruyter & Co., Germany).	3 (1) 15.	2008	Alka G. Boricha and Z.V.P. Murthy, Prediction of nanofiltration performance by using membrane transport models for the separation of nickel salts from aqueous solutions.
2.	Journal of Applied Polymer Science , (Wiley-Blackwell, USA) (Impact Factor: 1.187).	110 (6) 3596-3605.	2008	Alka G. Boricha and Z.V.P. Murthy, Preparation and performance of N,O-carboxymethyl chitosan-polyether sulfone composite nanofiltration membrane in the separation of nickel ions from aqueous solutions.
3.	Separation and Purification Technology , (Elsevier Scientific Publication, USA) (Impact Factor: 2.879).	65 (3) 282-289.	2009	Alka G. Boricha and Z.V.P. Murthy, Preparation, characterization and performance of nanofiltration membranes for the treatment of electroplating industry effluent.
4.	Journal of Membrane Science , (Elsevier Scientific Publication, USA) (Impact Factor: 4.093).	339 (1-2) 239-249.	2009	Alka G. Boricha and Z.V.P. Murthy, Acrylonitrile butadiene styrene/chitosan blend membranes: preparation, characterization and performance in the separation of metal ions.
5.	Chemical Engineering Journal , (Elsevier Scientific Publication, USA) (Impact Factor: 3.074).	157(2-3) 393-400.	2010	Alka G. Boricha and Z.V.P. Murthy, Preparation of N,O-Carboxymethyl Chitosan/Cellulose Acetate Blend Nanofiltration Membrane and Testing Its Performance in Treating Industrial Wastewater.
6.	Journal of Polymer Engineering , (Walter de Gruyter, Germany) (Impact Factor: 0.397).	31 (4) 333-340.	2011	Alka A. Mungray and Z.V.P. Murthy, Dilute Solution Viscometry Study on the Miscibility of N,O-Carboxymethyl Chitosan-Cellulose Acetate Blends.
7.	Research Journal of Chemistry and Environment . (Impact Factor: 0.636).	15 (4) 624-628.	2011	Mungray, A. A. , Mungray, A. K., Kulkarni, S. V, Removal of Mercury from wastewater using micellar enhanced ultrafiltration.
8.	Central European Journal of Chemistry . (Springer Vienna, Poland) (Impact Factor: 0.991).	10 (1) 27-48.	2012	Mungray, A. A. , Mungray, A. K., Kulkarni, S. V. Removal of heavy metals from wastewater using MEUF technique: A review.

9.	Journal of Polymer Materials, (M.D. Publications, India) (Impact Factor: 0.134).	29(3) 331-348.	2012	Alka A. Mungray and Z.V.P. Murthy, Synthesis and Characterization of a Nanofiltration Membrane and Its Performance in Separating Metal Ions.
10.	Ionics (Springer-Heidelberg, Germany) (Impact Factor: 1.288).	18 811-816.	2012	Alka A. Mungray and Z.V.P. Comparative Performance Study of Four Nanofiltration Membranes in the Separation of Mercury and Chromium.
11.	Industrial & Engineering Chemistry Research, (American Chemical Society Publication, USA) (Impact factor: 2.202).	51 (32) 10557–10564.	2012	K. J . Singala, A.A. Mungray , A. K. Mungray, Degradation Behavior of Polypropylene-Organically Modified Clay Nanocomposites.
12.	International Biodeterioration & Biodegradation. (Elsevier Science Limited, England) (Impact factor: 2.252).	75, 131-137.	2012	Satish S. Rikame, Alka A. Mungray , Arvind. K. Mungray. Electricity generation from acidogenic food waste leachate using dual chamber mediator less microbial fuel cell.
13.	International Journal of Polymeric Materials and Polymeric Biomaterials, (Taylor & Francis Group Publication, USA) (Impact factor: 1.200).	63, 595–601	2013	Pankaj Pardeshi, Alka A. Mungray , High flux layer by layer polyelectrolyte FO membrane: Towards enhanced performance for osmotic microbial fuel cell,
14.	Reviews of Environmental Contamination and Toxicology. (Springer publication) (Impact factor: 2.477).	83-110	2013	Yadav, T., Mungray, A.A. , and Mungray, A. K. Fabricated Nanoparticles: Current Status and Potential Phyto-toxic Threats, A Review.
15.	Journal of Membrane Science, (Elsevier Scientific Publication, USA) (Impact factor: 4.093).	453, 202–211.	2014	Pankaj Pardeshi, Alka A. Mungray , Synthesis, characterization and application of novel high flux FO membrane by layer-by layer self-assembled polyelectrolyte,
16.	Desalination and Water Treatment, (Taylor & Francis Group Publication, USA) (Impact factor: 2014: 1.173)	1–13	2014	Zubin M. Darbari, Alka A. Mungray Synthesis of an electrically cleanable forward osmosis membrane"
17	Separation and Purification Technology, (Elsevier Scientific Publication, USA) (Impact Factor: 2014: 3.091).	150, 86-94	2015	Neha Gawande, Alka A. Mungray , Superabsorbent polymer (SAP) hydrogels for protein enrichment,
18	RSC Advances, (Impact factor: 2015: 3.840)	5, 64421-64432	2015	Yadav, T., Mungray, A.A. , Mungray, A. K. A comparative analysis of a TiO ₂

				nanoparticle dispersion in various biological extracts.
19	Environmental Science and Pollution Research , (Springer publication) (Impact factor: 2014: 2.757)	1-10	2015	Yadav, T., Mungray, A.A. , Mungray, A. K. Effect of Multi-walled Carbon Nanotubes on UASB Microbial Consortium.
20	RSC Advances , (Impact factor: 2015: 3.840)	5 (126), 103956-103963	2015	Yadav, T., Mungray, A.A. , Mungray, A. K. Dispersion of multiwalled carbon nanotubes in Acacia extract and its utility as an antimicrobial agent A comparative analysis of a TiO ₂ nanoparticle dispersion in various biological extracts.
21	Chemical Engineering Research and Design (Impact factor: 2015:2.348)	109, 215–225	2016	Pankaj Pardeshi, Alka A. Mungray , Arvind K. Mungray" Determination of optimum conditions in forward osmosis using a combined Taguchi-Neural approach"
22	Separation and Purification Technology , (Elsevier Scientific Publication, USA) (Impact Factor: 2014: 3.091)	168, 83–92	2016	Ramesh Nakka, Alka A. Mungray Biodegradable and biocompatible temperature sensitive triblock copolymer hydrogels as draw agents for forward osmosis
23	Environmental Technology (Impact factor: 1.560)	Accepted on 29 th May	2016	Yadav, T., Mungray, A.A. , Mungray, A. K. Effect of TiO ₂ Nanoparticles on UASB Biomass Activity and Dewatered Sludge

Annexure: 3

Papers published in International Conference/Proceedings (14)

Sr. No.	Name of Conference/Seminar	Month/Year	Venue	Title
1.	Young Researchers' Conference-2007" Organized by UICT, Mumbai and	March 29th - 31st, 2007.	Dr. Babasaheb Ambedkar Technological University, Loneri, Maharashtra, India,	Synthesis of N,O-carboxymethyl chitosan (NOCC)-polyether sulfone (PES) composite nanofiltration membrane and effect of operating variables for the separation of nickel ion from aqueous wastewater.
2.	Environmental Management: Scenario and	26 th -27 th December 2007.	Ujjain, M.P. India,	Adsorptive Treatment of Distillery Spentwash Using Non-Crosslinked and Crosslinked Chitosan Membranes

	Strategies to 2020			
3.	International congress of Chemistry and Environment ICCE 2009	21 st -23 rd January 2010.	Ubon Ratchathani, Thailand	Separation behavior of N,O carboxymethyl chitosan (NOCC)/cellulose acetate (CA) blend nanofiltration (NF) membrane for copper removal.
4.	5 th International congress of Chemistry and Environment (ICCE 2011)	27 th -29 th May, 2011	Malaysia	Removal of Mercury from wastewater using miceller enhanced ultrafiltration. at during
5.	World Congress on Engineering and Computer Science 2011 (WCECS 2011) - International Conference on Chemical Engineering 2011	19 th -21 st , October 2011	San Francisco, USA	Preparation and Characterization of Acrylonitrile Butadiene Styrene and Trifluoroacetyethyl Cellulose Blend Nanofiltration Membrane and Performance in the Separation of Mercury, Paper presented at the “, held at the University of California, Berkeley, ,
6.	International congress of Environmental Research (ICER 2011)	15 th -17 th December, 2011	SVNIT Surat, India	Performance of Dynamic Membranes in Anaerobic Membrane Bioreactor: A Review.
7.	International congress of Environmental Research (ICER 2011)	15 th -17 th December, 2011	SVNIT Surat, India	Removal of Heavy Metal from Wastewater Using Surfactant by Ultrafiltration
8.	CHEMCON-2012	December 27-30, 2012.	Jalandhar, Punjab, India,	Kulkarni, S. V., Mungray, A. A. , Mungray, A. K., TiO ₂ nanoparticle Coated PES Membrane for separation of mercury from wastewater by using micellar enhanced ultrafiltration, at
9.	6 th International congress of Chemistry and Environment (ICCE 2013)	8 th -10 th July, 2013.	Antwerp, Belgium	Yadav, T., Mungray, A. A., Mungray, A. K. Nanotoxicity in Microbial Population and its Utility in Pathogen Removal.
10.	6 th International congress of Chemistry and Environment (ICCE 2013)	8 th -10 th July, 2013.	Antwerp, Belgium	Pankaj Pardeshi, Alka A. Mungray , Arvind Mungray, Preparation, characterization and application of zero-valent iron nanoparticle immobilized sulfonated (polyvinyl alcohol/clay) nanocomposite forward osmosis membrane
11	International congress on Global Challenges:	28 th to 30 th Oct. 2014.	Kathmandu, Nepal	Dharmadhakari, S., Mungray, A. A., Mungray, A. K. Modification, characterization and application of proton

	Sustainable wastewater treatment and resource recovery			Exchange Membrane in microbial Fuel Cell.
12	International congress on Global Challenges: Sustainable wastewater treatment and resource recovery	28 th to 30 th Oct. 2014.	Kathmandu, Nepal	Yadav, T., Mungray, A. A., Mungray, A. K. Modification, characterization and application of proton Exchange Membrane in microbial Fuel Cell. International congress on Global Challenges: Sustainable wastewater treatment and resource recovery
13	International Conference on Membrane based separations (MEMSEP 2015)	21-25 March 2015	M.S. University Baroda	Yadav, T., and Mungray A.A., Mungray, A. K., Application of nanoparticles for pathogen removal during waste water treatment.
14	International Conference on Membrane based separations (MEMSEP 2015)	21-25 March 2015	M.S. University Baroda	Ramesh, N., and Mungray, A. A., Temperature sensitive biodegradable and biocompatible block copolymer hydrogels preparation and application in forward osmosis.

Annexure: 4

Papers published in National Conference/Proceedings (3)

Sr. No.	Name of Conference/Seminar	Month/Year	Venue	Title
1.	Annual Conference of Indian Association for Environmental Management	30 th November 30– December 1, 2007.	Ankleswar, Gujarat, India.	Alka G. Boricha and Z.V.P. Murthy, Metals removal capability of chitosan from Wastewaters: an overview
2.	Conference on Technological Advancement in Chemical and Environmental Engineering (TACEE-2012),	23-24 March 2012,	Chemical Engineering Department, BITS Pilani, India.	Kanan, K. P., Mungray, A. A., Mungray, A. K. Performance of Anaerobic Dynamic Membrane Bioreactor Treating Domestic Municipal Wastewater.
3.	Conference on Technological Advancement in Chemical and Environmental Engineering (TACEE-2012),	23-24 March 2012,	Chemical Engineering Department, BITS Pilani, India.	Rikame, S. S., Mungray, A. A., Mungray, A. K. Power Generation from Food Waste Leachate in Microbial Fuel Cell.

Annexure: 5**No. of Expert lecture Delivered: (04)**

Sr. No.	Details
1	Workshop on “ Nanotechnology Applications in Engineering and Technology ” conducted by Chemical Engineering Department, NIT, Nagpur during February 15 th - 17 th , 2013.
2	Advances on Wastewater Treatment and Energy Generation ” conducted by Chemical Engineering Department, SVNIT, Surat during 30 th Sept. – 04 th Oct., 2013.
3	“ Nanotechnology Applications In Engineering & Technology ” Conducted by Chemical Engineering Department, VNIT, Nagpur during February 15-17, 2013
4	“ Carbon neutral energy sources ” conducted by Department of Chemical Engineering, SVNIT, Surat, during 9th to 13th May, 2016.

Annexure: 6**No. of Summer/Winter schools/Training programmes Organized: (02)**

Sr. No.	Name of Faculty Member	Name of the associated Faculty Members	Name of Programme	Dates of Programme
1.	Dr. (Mrs.) Alka A. Mungray (Co-Coordinator)	Coordinators Dr. N. J. Mistry Dr. Arvind Kumar Mungray Co-coordinators Dr. Z. V. P. Murthy Dr. M. Chakraborty	AICTE approved STTP on Treatment and Disposal of Wastewaters	One week from 5 th -9 th October, 2009
2.	Dr. (Mrs.) Alka A. Mungray (Co-Coordinator)	Coordinators Dr. Z. V. P. Murthy Dr. Arvind Kumar Mungray Co-coordinators Dr. N. J. Mistry Dr. M. Chakraborty	AICTE approved STTP on Anaerobic Digestion of Wastewaters	One week from 22 th -27 th February, 2010

Annexure: 7

No. of Seminar/Conference/Workshop/Networking programme organized: (02)

Sr. No.	Name of Faculty Member	Name of the associated Faculty Members	Name of Programme	Dates of Programme
1.	Dr. Alka A. Mungray (Coordinator)	Dr. Arvind Kumar Mungray (Coordinator) Dr. Z. V. P. Murthy (Coordinator)	TEQIP-II Sponsored Workshop on “Nanotechnology and its application”	Three days from 19 th to 21 st April, 2013
2.	Dr. Alka A. Mungray (Coordinator)	Dr. Arvind Kumar Mungray (Coordinator) Dr. Z. V. P. Murthy (Coordinator)	TEQIP-II Sponsored Workshop on “Advances on wastewater treatment and energy generation”	One week from 30 th Sept. – 04 th Oct., 2013

Annexure: 8

Memberships in professional bodies: (04)

- Membership of the **International Water Association (IWA)** having membership number: **01036031**.
- Life associate Member in “**The Institution of Engineers (India)**” (AM1004630).
- Fellow Membership (F.I.C.C.E.) in “**International Congress of Chemistry and Environment**” FW/A/5055.
- **Member of Indian Institute of Chemical Engineers (LM-46916)**.

Annexure: 9

(a) Ph.D. Supervision: (04) Ongoing 4

Sr. No.	Name of Student	Year of registration	Topic	Supervisor	Co-Supervisor (if any)
1	Tushar Yadav (FIR)	July, 2012	Effects of nanoparticles on anaerobic microbial activity found in UASB sludge	Dr. Arvind Kumar Mungray	Dr. Alka Mungray
2	Satish Rikame (PEC)	July, 2013	Electricity generation and metal recovery from wastewater using microbial fuel cell	Dr. Alka Mungray	Dr. Arvind Kumar Mungray
3	Pankaj pardeshi (FIR)	December, 2013	Novel modifications in osmotically microbial fuel cell (OMFC).	Dr. Alka Mungray	-----
4	Om Prakash (PPF)	Aug. 2015	Benthic microbial fuel cell for powering Naval sensors -----	Dr. Arvind Kumar Mungray	Dr. Alka Mungray

(b) M.E./M.Tech. Dissertations Guided: (10) Completed 9, ongoing 1

Sr. No.	Name of Student	Year of Completion	Thesis Title	Supervisor	Co-Supervisor (if any)
1	Jayant Singh	2010	Preparation, characterization and performance of polymeric membranes for nanofiltration and pervaporation.	Dr. Z. V. P. Murthy	Dr. Alka Mungray
2	Shrirang V. Kulkarni	2011	Removal of heavy metals by micellar enhanced ultrafiltration	Dr. Alka A. Mungray	Dr. Arvind Kumar Mungray
3	Satish S. Rikame	2012	Electricity generation from acidogenic food waste leachate using dual chamber mediator less microbial fuel cell	Dr. Alka A. Mungray	Dr. Arvind Kumar Mungray
4	K. P. Kannan	2012	The effect of ultrasound on the performance of anaerobic dynamic membrane bioreactor treating municipal wastewater	Dr. Alka A. Mungray	Dr. Arvind Kumar Mungray
5	Pankaj	2013	Development of novel membrane and its application in Osmotically	Dr. Alka A.	-----

	Pardeshi		microbial fuel cell (OMFC).	Mungray	
6	Kamlesh J.singala	2013(M.Tech Research)	Studies on synthesis and degradation of polypropylene-clay nanocomposite	Dr. Alka A. Mungray, Dr. Arvind K. Mungray	-----
7	Miss Neha Gawande	2014	Enhanced water flux in forward osmosis process with fast swelling superabsorbent polymer hydrogels	Dr. Alka A. Mungray	-----
8	Sandeep Dharmadhikari	2014	Preparation, characterization and application of proton exchange membranes in microbial fuel cell	Dr. Alka A. Mungray, Dr. Arvind Kumar Mungray	-----
9	Nakka Ramesh	2015	A revolutionary approach for regeneration of graphene based membrane and draw agent in UASB-EFO (Up flow anaerobic sludge blanket-Electric field attached, Forward Osmosis) for the production of pure water from municipal wastewater.	Dr. Alka A. Mungray	
10	Niddhi	Ongoing	Septic tank integrated with MFC	Dr. Alka A. Mungray Dr. Arvind Kumar Mungray	

(c) Programme Assistantship (B.Tech) (completed)

Sr. No	Student Name & Semester	Assistantship TEQIP / GATE / Other	Category Teaching / Research	Duration	Topic
1	Zubin M. Darbari,(U11CH090)4 th semester, second year (Completed) (2013)	Other	Summer research fellowship programme	2 Month COMPLETED	Synthesis of an electrically cleanable forward osmosis membrane

Annexure: 10

Paper Reviewer in International Journals (13)

- (1) Desalination and Water Treatment Science and Engineering (Desalination Publications International Science Services) (3).
- (2) Polymer Engineering & Science, John Wiley & Sons Inc.. (3).
- (3) South African water science and technology journal, (Water SA) (1)
- (4) IONICS, Springer (1)
- (5) Separation and Purification Technology (SPT) (1)
- (6) Environmental Technology (1)
- (7) Journal of membrane science (3)

Annexure: 11

Workshops/Summer Schools/ Winter schools/Short term Courses attended: (23)

1. Participated in 59th Annual session of “**CHEMCON-06**”, GNFC, Bharuch, 27th-30th December, 2006
2. Participated in National conference on “**Hydraulics and water resources**” from 21st - 22nd December, 2007, SVNIT, Surat.
3. Participated in a workshop on “**Opportunities in catalysis and adsorptive separation**”, at Department of Chemical Engg., SVNIT, Surat during 7th -11th May 2007.
4. Participated in a national conference on “**Emerging trends in Chemical Engineering-Global scenario**” under TEQIP conducted by Chemical Engineering Department, SVNIT, Surat, from 7th -8th May, 2008.
5. Participated in **short-Term Course “Pedagogy & Research Methology for newly recruited faculty members.”** One week from 3rd-7th May, 2009 SVNIT, Surat.
6. Participated in a **short-term course** on “**Sustainable Water and Waste management Techniques**”, conducted by Civil Engineering Department, SVNIT, Surat, from 27th – 31st July, 2009.
7. Participated in a **short-term course** on “**Advanced Instrumental Methods of Analysis**” at Department of Chemical Engg., SVNIT, Surat during 24th-28th August 2009.
8. Participated in a **short-term course** on “**Advanced in Condensed matter Physic:**” conducted by Applied Physics Department, SVNIT, Surat, from 31st-4th September, 2009.

9. Participated in the **3rd INDO-GERMAN** workshop on “**Management of Water Supply and Wastewater System**” at IIT Bombay during 19-20 November 2009.
10. Attended **INDO-Australian** workshop on “**Recent Advances in Wastewater Treatment**” at Institute of Chemical Technology, Matunga, Mumbai during 16th-17th December 2009.
11. Participated in a **short-term course** on “**Recent developments and future trends of nanotechnology in modern science**”, conducted by Applied Chemistry Department, SVNIT, Surat, from 21st -25th December, 2009.
12. Participated in “**twenty seventh national convention of environmental engineers**” held at mangalore during 24-25 January 2012.
13. Participated in a one day workshop on “**six sigma & statistical analytical tools**”, organised by Department of Chemical Engineering, SVNIT, Surat, held on 22nd March, 2013.
14. Participated in a one week **Short-term course** on “**Mathematical Statistics for Researchers, Engineers and Scientists (MSFRES)**”, conducted by Department of Applied Mathematics & Humanities, SVNIT, Surat, during 2nd – 6th September, 2013.
15. Participated in a one week Short-term course on “**Recent Trends in Nanomaterials Synthesis, Characterization and Applications**”, conducted by Department of Chemical Engineering, SVNIT, Surat, during 14th– 18th October, 2013.
16. Participated in a one week **Short-term course** on “**Nanoscale Integration, Fabrication and Characterization**”, conducted by Department of Electronics Engineering, SVNIT, Surat, during 21st – 25th October, 2013.
17. Participated in a one week **Short-term course** on “**Green Chemistry and Engineering: Towards a Sustainable Future**”, conducted by Department of Chemical Engineering, SVNIT, Surat, during 18th – 22th November, 2013.
18. Participated in a one day workshop on “**COMSOL multiphysics modeling**”, organized by Department of Chemical Engineering, SVNIT, Surat, held on 6th December, 2013.
19. Hindi karyshala on Rajbhasha niyam and software trining, organized by SVNIT, Surat, held on 9th -13th, June, 2014.
20. Participated in a one week **Short-term Training programme** on “**Advances in waste management Techniques**”, conducted by Department of Civil Engineering, SVNIT, Surat, during 23rd-27th, June, 2014.

21. Participated in a one week **Short-term Training programme** on “**Design of experiment and artificial neural network**”, organized by Department of Chemical Engineering, SVNIT, Surat, during 22nd-26th, June, 2015.
22. Participated in a one week TEQIP-II Sponsored STTP on **Interfacial Engineering and Nanotechnology for Sustainable Environment**, Conducted by Department of Chemical Engineering, SVNIT, Surat, during 10 to 14 August, 2015.
23. Participated in a one week TEQIP-II Sponsored STTP on **carbon neutral energy sources**, Conducted by Department of Chemical Engineering, SVNIT, Surat, during 9th to 13th May, 2016.

Annexure: 12

Administrative Responsibilities:- (12)

1. Member of registration committee (B.Tech. III year) (2010 to 2015).
2. B. Tech. 3rd Year Faculty advisor (2010 to till 2015).
3. B.tech registration committee member for convocation (2010 to 2015).
4. Hostel anti-ragging committee member (2010 to 2015).
5. Departmental student's grievance committee member (2010 to 2015).
6. Lab Incharge of “General chemical technology (GCT) laboratory.
7. Committee member (Assistant Professor cadre) for implementation of the four-tier structure in NITs.
8. M.tech (Research) and Ph.D. selection committee member
9. Committee member in various Ph.D. Research Progress Seminar (RPS) committees
10. Member of scrutiny committee to scrutinize the application forms of the assistant professors in the computer department.
11. Institute Day Care In-Charge.
12. Department time table and work load Committee (2010 to 2015).