

**BIPIN VYAS**  
**M.ENG (ENERGY)**



**PERSONAL DOSSIER**

Full name	Bipin Gordhanbhai Vyas
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LinkedIn (in)	www.goo.gl/sdBnz
Research Gate (R <sup>G</sup> )	goo.gl/zhK6MW
Date of birth	20 <sup>th</sup> September, 1989
Blood Group	A Positive (A+)
Nationality	Indian
Marital Status	Married
Language Proficiency	English, Gujarati, Hindi

**ACADEMIC CREDENTIALS**

YEAR	DEGREE	INSTITUTE / UNIVERSITY/BOARD	PERCENTAGE/CPI
2023	Ph.D. in Engineering Science	Academy of Scientific and Industrial Research (AcSIR), CSIR-AcSIR	CGPI: 8.27
2013-2016	Master of Energy Engineering	Government Engineering College, Valsad. Gujarat Technological University(GTU), Ahmedabad	80.03%, CPI: 8.53 (Distinction)
2008-2012	Bachelors of Mechanical Engineering	Faculty of Technology & Engineering, The M.S. University (MSU), Baroda	71.42% (Distinction)
2008	HSC	P.P. Savani high School, Surat ,GSHEB	84.80% (Distinction)
2006	SSC	Suman high school-3, Surat, GSEB	92.57% (Distinction)

**PROFESSIONAL & RESEARCH WORK EXPERIENCES**

NAME OF EMPLOYER	DESIGNATION	NATURE OF WORK	PERIOD		TOTAL YEARS
			FROM	TO	
<b>CURRENT</b>					
CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar-364002	Senior Scientist	Research on Solar Salt Technology	07-12-2021	Existing	>1 yr
CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar-364002	Scientist	Research on Solar Salt Technology	07-12-2017	07-12-2021	4 yr
<b>Past details</b>					
Sardar Patel Renewable Energy	Research	Research	30/06/2015	30/10/2017	2.4

Research Institute (SPRERI), VallbhVidyanagar-388120	Fellow	on Renewable Energy			year
Vadodara Institute of Technology, Vadodara	Assistant Professor	Teaching	24/06/2013	30/08/2013	2 month
Faculty of Technology & Engineering College, The M S University of Baroda-390001	Temporary Teaching Assistant	Teaching	29/08/2012	11/05/2013	8 month

#### DETAILS OF RESEARCH PUBLICATIONS

- 1) **B.G.Vyas**, P.K. Labhassetwar, A.Yadav, A.R.Paital, "A compendium of evaporation techniques for salt production from seawater and subsoil brine", Chemical Papers, Springer (2022), **Impact Factor: 2.1**
- 2) Anshul Yadav, Raj Vardhan Patel, **Bipin G. Vyas**, Pawan kumar Labhassetwar, Vinod Kumar Shahi, "Recovery of NaCl and CaSO<sub>4</sub> from sub-soil brine using CNT@MOF<sub>5</sub> incorporated poly (vinylidene fluoride-hexafluoropropylene) membranes via vacuum-assisted distillation", Colloids and Surfaces A: Physicochemical and Engineering Aspects; vol 645, 20 July 2022, 128918, **Impact Factor: 5.518**
- 3) Madhuri Narra, Kumud Macwan, **Bipin Vyas**, Manish R. Harijan, Disha Shah, Velmurugan Balasubramanian, Anil S. Prajapati, "A bio-refinery concept for production of bio-methane and bio-ethanol from nitric acid pre-treated corncob and recovery of a high value fuel from a waste stream", Renewable energy, Volume 127, November 2018, Pages 1–10, ISSN: 0960-1481, **Impact Factor: 8.634**
- 4) Madhuri Narra, Jyoti Divecha, Disha Shah, Velmurugan Balasubramanian, **Bipin Vyas**, Manisha Harijan, Kumud Macwan, "Cellulose production, simultaneous saccharification and fermentation in a single vessel: A new approach for production of bio-ethanol from mild alkali pre-treated water hyacinth", Journal of Environmental Chemical Engineering, ISSN:2213-3437, 2017, **Impact Factor: 7.968**
- 5) Samkit V Shah, **Bipin G Vyas**, Arun Bollavarapu and Shirish Patel, "Aerodynamic and Thermal Design of Centrifugal Compressor for Small Scale in Non-dimensional form", International Journal of Mechanical and Production Engineering Research and Development(IJMPERD),vol 7, issue 2, pp. 81-92, ISSN: 2249-8001, **NASS Rating : 3.11, Impact Factor: 6.87**, March 2017
- 6) **Bipin G Vyas** and Nirmal S Parmar, "Experimental analysis of Thermal Contact Resistance across different composite material pair using different interface material in presence of pressure conditions", International Journal of Current Research (IJCR), vol 8, issue 9, , pp 39322-39328, ISSN-0975 833X, **Impact Factor: 6.226**, September 2016
- 7) **Bipin G Vyas**, Nilesh R Sheth, Mukesh P Keshwani and Nirmal S Parmar, "Experimental analysis of Thermal Contact Resistance across different composite material pair using different interface material in ambient condition", International Journal of Engineering Research & General Science (IJERGS), Nepal, vol 3, issue 6, (2015), pp 62-73, ISSN-2091 2730, **Impact Factor: 3.843(SJIF)**, 5.18(ICV)
- 8) **Bipin G Vyas**, Nilesh R Sheth, Mukesh P Keshwani and Nirmal S Parmar, "Review: Thermal Contact Resistance of metallic composite pair", International Journal of Application or Innovation in Engineering & Management (IJAIEEM) vol 4, issue 2, pp 193-200, ISSN-2319 4847, **Impact Factor: 4.01**, February 2015

#### CONFERENCE ARTICLE

- 1) **Bipin G. Vyas**, "Energy, Exergy Analysis and Optimization of Paddlewheel Operated Portable Model for Enhanced Brine Evaporation" in VII ISEES international conference on "Sustainable

Energy and Environment challenges”, 16-18th December 2022. Organized by Indian Institute of Technology (IIT), Banaras Hindu University, Varanasi, India

- 2) Anil S. Prajapati, Kumund Macwan, **Bipin Vyas**, Manish R.Harijan,B.Velmurugan, Madhuri Narra, “Biogas production from non-detoxified corncob acid hydrolysate using anaerobic hybrid reactors: a Potential carbon”, UGC Conference on Current Trends in Biological Sciences-II, February 8-9,2018 Post graduate Department of Biosciences, Sardar Patel University, Bakrol-388315, Anand, Gujarat
- 3) **Bipin Vyas**, Neel Kumar N Thakkar, Samir Vahora, Madhuri Narra, Shailesh Verma, Dinesh Rajvanshi, B.Velmurugan, “Laboratory scale pressure swing adsorption (PSA) system for upgradation of bio-gas to bio-methane”, Symposium on Sustainability of Chemical Industries: Exploring New Avenues for Growth, August 22-23, 2017, Department of Chemical Engineering, G H Patel College of Engineering & Technology (GCET), Vallabh Vidyanagar
- 4) Manisha Harijan, Disha Shah, **Bipin Vyas**, Anil Kurchania, Velmurugan Balasubramanian, Madhuri Narra, “Laboratory scale humic acid extraction plant: A value edition from bio-gas spent slurry”, Symposium on Sustainability of Chemical Industries: Exploring New Avenues for Growth, August 22-23, 2017, Department of Chemical Engineering, G H Patel College of Engineering & Technology (GCET), Vallabh Vidyanagar
- 5) Rahul kr. Gautam, Nirmal S Parmar, **Bipin Vyas**, “Effect of fouling on thermal and hydraulic parameter of Shell and Tube Heat exchanger”, Student’s conference 2017, Czech Technical University in Prague, Faculty of Mechanical Engineering
- 6) Jignesh Pathak, **Bipin G Vyas** and Dipak S Jani, “2D Numerical Simulation of Thermal Contact Resistance of Metallic Composite pair using COMSOL 5.2a tool”, 2nd National Conference on Recent Research & Development in Core Disciplines of Engineering, Vadodara Institute of Engineering, Vadodara, 21th -22th April, 2017
- 7) Jignesh Pathak, **Bipin G Vyas** and Dipak S Jani, “Performance evaluation of domestic Eco-solar dryer by using same weight different vegetables-fruits chips”, National Conference on Design, Analysis and Optimization in Mechanical Engineering(DAOME-2016), Mechanical Engineering Department, Faculty of Technology and Engineering College, The M S University of Baroda,18th -19th March 2016

#### MAGAZINE ARTICLE

- 1) Er. B.Velmurugan, Madhuri Narra, **Bipin Vyas**, Samir Vahora, Dipak R Shah, Ajay Zala, Bhavesh Patel, “Biogas From Dairy Scum – A Case Study of Vidya Dairy”, Indian Dairyman, ISSN 0019-4603, Vol.69 No.11, pp 44-47, November- 2017.
- 2) Er. Dinesh Rangapara, **Er. Bipin Vyas**, “Biogas plant based on kitchen waste”, Vol.43, pp 10, AGRO Sandesh, Newspaper.
- 3) Dr. Anil Kurchania, Er. B.Velmurugan, Dr. Madhuri Narra, **Er. Bipin Vyas** and Shakil U Saiyed, “Water Hyacinth: A Boon for Biogas production”, Akshay Urja (MNRE, New Delhi, India) Renewable Energy magazine, vol 10, issue 2, pp 18-20, October-2016.
- 4) Er. B.Velmurugan, Dr. Madhuri Narra, **Er. Bipin Vyas**, Er. Samir Vhora and Dr. A K Kurchania, “Biogas from dairy effluent scum- A potential energy resource”, Akshay Urja (MNRE, New Delhi, India) Renewable Energy magazine, vol 10, issue 1, pp 34-36, August-2016.

#### PATENT

SR NO	TITLE	COUNTRY	FILED ON (DATE)	NAME OF INVENTORS
1	A Process For The Preparation Of Common Salt (Nacl) With Reduced Iodide And Bromide Content During Solar Salt	India	24 <sup>th</sup> Jan 2023	Alok Ranjan Paital, Arvind Kumar, Sumesh Chandra Upadhyay, <b>Bipin Gordhanbhai Vyas</b> , Rahul Jasvantrai Sanghavi, Sumit Balkrishna Kamble, Bhoomi Rameshkumar Andharia

	Harvesting Application No: 202311004830			
2	Pharma-grade salt (NaCl) composition and its method of preparation thereof	India	October 5, 2021	Alok Ranjan Paital, Arvind Kumar, Sumesh Chandra Upadhyay, Rahul Jasvantrai Sanghavi, <b>Bipin Gordhanbhai Vyas</b> , Hiren Dinkarray Raval
3	A Process for the recovery of high purity salts from crudes containing sodium chloride and sodium sulphate Application No: 202011009669	India	March 6, 2020	Kumar Arvind, Upadhyay Sumesh Chandra, Sanghavi Rahul Jasvantrai, Hamidani Abdul Hamid, <b>Vyas Bipin Gordhanbhai</b> , Makwana Mahesh Harjibhai, Dobariya Rakesh Vinubhai, Bhatti Sameer Jayendrabhai, Gauswami Maulik Vinodpuri

## TECHNICAL REPORTS

- 1) **Bipin Vyas**, Nirmal Parmar, Deepak Jani, "Thermal Contact Resistance across different metallic composite pair", LAP Lambert Academic Publishing, Germany, ISBN 978-3-659-74205-7, 2017
- 2) Deepak Jani, **Bipin Vyas**, Nirmal Parmar, "Enhancement of heat transfer in Radiator by using different Nano fluids and varying mass flow rate", LAP Lambert Academic Publishing, Germany, ISBN 978-3-330-04515-6, 2017
- 3) Shivam Modi, **Bipin Vyas**, Vishal Patel, "Energy Optimization and detailed Energy Audit of a Textile Industry", LAP Lambert Academic Publishing, Germany, ISBN 978-3-659-66958-3
- 4) Vishal Patel, **Bipin Vyas**, Shivam Modi, "Energy Optimization and detailed Energy Audit of a Sugar Industry", LAP Lambert Academic Publishing, Germany, ISBN 978-3-330-04305-3

## AWARDS & ACCOLADES

2023	Honored as " <b>Pride of P.P. Sawani</b> " for remarkable and highly dignified achievement to serve and revolutionize society and the nation in "Great Achievement Talent Function" for Class I, II and III government officers (more than 450) in presence of all national level dignitaries, which was felicitated by CET - P.P. Sawani group of school and EM charitable trust Surat on 25 <sup>th</sup> February 2023.
2022	Honored as " <b>Young Researcher Award-2022</b> " by the INSC Institute of Scholars, an International Publisher for the best work in the area of salt.
2022	Honored as " <b>Pride of P. P. Savani</b> " awarded for an exceptional career and achievement as well as for providing remarkable services to the society by P. P. Savani group of school, Surat on 16 <sup>th</sup> April 2022.
2019	Article entitled " <b>Bio-gas from dairy scum –A Case Study of Vidya Dairy</b> " has been published in Indian Dairyman (2017), Received the First best paper award in 47 <sup>th</sup> Dairy Industry Conference, Patna(Bihar);7-9 February, 2019
2017	Article entitled " <b>Laboratory scale pressure swing adsorption (PSA) system for upgradation of bio-gas to bio-methane</b> " Recieved the Best Oral Presentation Memento in Symposium on Sustainability of Chemical Industries: Exploring New Avenues for Growth, August 22-23, 2017, Organized By: Department of Chemical Engineering, G H Patel College of Engineering & Technology (GCET), Vallabh Vidyanagar
2006	First Rank in SSC among eight SUMAN High School in Surat district, Achieved the Trophy and Certificate by Mayor & IAS officer of Surat district.
2012	Selected in "MHRD, Delhi" Scholarship Program & got Rs.10000/- in 1 <sup>st</sup> year of Engineering

**EXPERT LECTURE (INVITED TALK)**

17 <sup>th</sup> December 2022	Delivered an expert talk on <b>“Energy, Exergy Analysis and Optimization of Paddlewheel Operated Portable Model for Enhanced Brine Evaporation”</b> in VII ISEES international conference on “Sustainable Energy and Environment challenges”, 16-18 <sup>th</sup> December 2022. Organized by Indian Institute of Technology (IIT), Banaras Hindu University, Varanasi, India
10 <sup>th</sup> April 2022	Delivered an expert lecture on <b>“Science of salt and its industrial application”</b> to the school student of various classes on occasion of 69 <sup>th</sup> CSIR-CSMCRI foundation day Organized by CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar
22 <sup>nd</sup> March 2022	Delivered an expert lecture on <b>“Semi-mechanization in the solar saltworks”</b> in a training program conducted by Salt Department, Nawa, Rajasthan Organized by Salt department, Nawa, Rajasthan, Government of India
30 <sup>th</sup> Nov’2021	Delivered a science talk on <b>“World of salt and its applications”</b> in India International Science Festival (IISF-2021), Organized by CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar
4 <sup>th</sup> September 2021	Conducted an online science talk on <b>“Science of salt and its applications”</b> on 4 <sup>th</sup> September 2021 in the Gujarati language for Model school Rajula (Dist: Amreli) under CSIR-Atal Innovation Mission (AIM) – Atal Tinkering Labs (ATL) initiative, organized by CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI)
31 <sup>st</sup> July 2021	Delivered an expert lecture on <b>“Recent trends on solar and bio energy”</b> , Organized by Sir Bhavsinhji Polytechnic Institute (BPTI), Bhavnagar
29 <sup>th</sup> June 2021	Delivered an expert lecture on <b>“Recent Trends in the Solar Salt Manufacturing Process and its industrial application and health issues”</b> in Vigyan Jyoti Programme (2021-22) Organized by Jawahar Navodaya Vidhyalay (JNV), Diu
11 <sup>th</sup> February 2021	Delivered an expert lecture on <b>“Recent Trends in the Solar Salt Manufacturing Process and utilization of Solar Energy in Saltfield”</b> in GUJCOST-DST sponsored one week online STTP on Futuristic Innovations on Solar Energy Technologies Organized by Government Engineering College, Patan
7 <sup>th</sup> Oct 2020	Delivered an expert lecture on <b>“Emerging Trends in the Salt Manufacturing Process and its Industrial Application”</b> , Organized by Sir Bhavsinhji Polytechnic Institute (BPTI), Bhavnagar
8 <sup>th</sup> March 2019	Delivered an expert lecture on <b>“Application of Renewable Energy”</b> in Skill Training programme for Household Electrician trade between 14 <sup>th</sup> February 2019 to 09 <sup>th</sup> May 2019 in Aditya Birla Group, Surat.
2017	Delivered an expert lecture on <b>“Biogas and its applications”</b> in one-day training program on "Various Aspects of Renewable Energy Technologies" Organized by SPRERI at Mahatma Gandhi Institute for Integrated Rural Energy and Development (GEDA) centre, Amrol, Gujarat.

**NO OF STUDENT GUIDED**

TOTAL NO	YEAR	COURSE	TITLE OF PROJECT
1	2016-17	M. Tech	Removal of hydrogen sulphide from raw biogas using packed bed reactor
1	2015-16	B. Tech	Effect of pressure and temperature on thermal contact resistance for composite material

## LIFE MEMBERSHIP

2022	Recognized as a <b>“Professional Member”</b> of the INSC Institute of Scholars, International Publishers and also recognized as a <b>“Reviewer”</b> of INSC Institute of Scholars, International Publishing Platforms, and also for Technical Events under the Basic, Engineering, and Medical Science stream
Oct’2020	Agricultural Science & Green Energy, e-newsletter, Junagadh, Gujarat, India
2019	The Indian Science Congress Association, Kolkata, India, Membership No- L37865
2018	The Indian Society for Technical Education (ISTE), New Delhi, Membership No- LM124604

## ONLINE COURSES (COURSERA)

**Course Title:** Exploring Renewable Energy Schemes

**Duration:** 6 weeks (Module)

**Instructor:** Dr. Jorge J. Santiago-Aviles, Associate Professor Emeritus, Electrical and Systems Engineering (ESE), University of Pennsylvania, School of Engineering and Applied Science

**Offered by:** University of Pennsylvania, Grade: 100/100

**Year:** 23rd May to 29th May 2020

**Course Title:** Solar Energy Basics

**Duration:** 5 weeks (Module)

**Instructor:** Dr. Neal M. Abrams, Associate Professor, University of New York

**Offered by:** The State University of New York, Grade: 97.1/100

**Year:** 29th May to 2nd June 2020

## IT FORTE

CCC (Course on Computer Concepts) (DOEACC Society, New Delhi)
Origin 8 graph plotter, Tech plot 360, Tera plot (Graph plotting Software)
Basic PRO-E (PTC Channel Advantage), Knowledge of ANSYS and COMSOL
Latex Software
MS office

## ATTENDED WORKSHOP/SEMINARS/PROGRAMME/COURSE/CAMP

YEAR	TYPES	NAME OF WORKSHOP/SEMINARS/PROGRAMME/COURSE
9 TO 11 <sup>TH</sup> FEB 2023	Conference	Attended International Conference on Recent Advances In Science, Technology, Humanities And Management (ICRASTHM-2023) ICRASTHM-2023 in V. G. Vaze College, Mumbai
17 <sup>th</sup> December 2022	Conference	Attended VII ISEES international conference on “Sustainable Energy and Environment challenges”, 16-18 <sup>th</sup> December 2022. Organized by Indian Institute of Technology (IIT), Banaras Hindu University, Varanasi, India
12th Sept 2022	Workshop	Attended workshop on “Essentials of Technology Transfer” Offered by Technology Management Group @ CSIR-NCL Organized by CSIR-CSMCRI, Bhavnagar
22nd to 26th August 2022	Workshop	Participated in “Academic writing “ workshop under skill initiative programme. Organized by : CSIR-CSMCRI, Bhavnagar
27th July 2022	Conclave	Attended/Participated in the event “Marine Chemicals Conclave” to celebrate Azadi Ka Amrit Mahotsav and forge partnership(s) with the industries

		Jointly organized by: CSIR, Ministry of Science & Technology and Ministry of Earth Sciences, Government of India, and Indian chamber of commerce
17 <sup>TH</sup> OCT-16 <sup>TH</sup> NOV'21	WORKSHOP	Attended workshop on "30 days Renewable Energy Master Class" from 17 <sup>th</sup> October to 16 <sup>th</sup> November 2021, organized by Pantech E Learning, Chennai.
17 <sup>TH</sup> -21 <sup>TH</sup> MAY 2021	STTP	One week short term training programme (STTP) on "Recent trends & scopes in solar energy" Organized by: Mechanical Engineering Department, SSASIT Engineering College, Surat, Gujarat
30 <sup>TH</sup> JAN 2021	CONFERENCE	4 <sup>th</sup> edition of CII TN Salt Conclave 2021 Organized by: Confederation of Indian Industry (CII)
21 <sup>ST</sup> JAN'21	CONFERENCE	5th International geothermal conference: Geothermal as green Energy Organized by: Centre of excellence of geothermal energy, Panit deendayal petroleum university
16 <sup>TH</sup> OCTOBER 2020	WEBINAR	Solar energy application in present era Organized by: Mechanical engineering department, Government engineering college, patan, gujarat, india. Sponsored by: Gujcost-DST
26 <sup>TH</sup> JUNE 2020	Webinar	Professional Webinar on Google Patents Organized by: Turnip innovations
5 <sup>TH</sup> JUNE 2020	Conference	Shaping the Energy Future: Challenges and Opportunities (SEFCO-2020), 4th National Symposium SEFCO-2020, Organized by CSIR-Indian Institute of Petroleum (IIP), Dehradun
29 <sup>TH</sup> MAY TO 2 <sup>ND</sup> JUNE 2020	Workshop	Online-Five days Hands-on workshop on Patent Searching, Drafting and Filing Organized by: Turnip innovations and Exilyze Intellectual services with Panimalar institute of technology, Tamilnadu, India
31 <sup>th</sup> January 2020	Conference	Attended the "Salt conference" Organized by: Confederation of Indian Industry (CII) along with Alkali Manufacturers Association of India and Indian Salt Manufacturers Association (ISMA) Knowledge Partner: CSIR- Central Salt and Marine Chemicals Research Institute(CSIR-CSMCRI), Bhavnagar
15 <sup>th</sup> November 2019	Workshop	Attended DST & ACS (workshop skill-building workshops for early career researchers focusing on scholarly publishing, peer review, ethics and plagiarism, science communication and careers.) Master the publishing process organized by : CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar Sponsored by: The American Chemical Society (ACS), Department of Science & Technology (DST) & Vigyan Prasar
FEBRUARY-2019	Workshop	Participated in Poster presentation in "Indo-German Bilateral workshop on Membrane for Water and Energy"(18-20 <sup>th</sup> Feb,2019) Organized by: Central salt and Marine Chemicals Research Institute (CSIR-CSMCRI)
JANUARY-2019	Workshop	Participated in "Skill shop on S & T communication Programme" (21-24 <sup>th</sup> Jan,2019) Organized By: CSIR-Human Resource Development Centre, Ghaziabad
SEPTEMBER-2018	Conference	National symposium on Electrochemistry in Materials and Devices (28-29 <sup>th</sup> Sept,2018) Organized By: Central Salt and Marine Chemicals Research Institute(CSIR-CSMCRI), Bhavnagar & Indian Society for Electro analytical Chemistry
SEPTEMBER-	Workshop	A Refresher Course on Essentials Fundamentals of Unit Operations in

2017		Chemical Engineering: Theory and Practice for Plant Personnel August 8-9, 2017 Organized By: Department of Chemical Engineering, G H Patel College of Engineering & Technology (GCET), Vallabh Vidyanagar
AUGUST-2017	Conference	Symposium on Sustainability of Chemical Industries: Exploring New Avenues for Growth, August 22-23, 2017 Organized By: Department of Chemical Engineering, G H Patel College of Engineering & Technology (GCET), Vallabh Vidyanagar
JULY-2017 (27-29 <sup>TH</sup> )	Workshop	Three days workshop on “HPLC, HPTLC & GC/GC-MS “ Sponsored by: Department of Science & Technology(DST), Govt. of India, New Delhi Organized by: Sophisticated Instrumentation Centre for Applied Research & Testing (SICART), Vallabh Vidyanagar
May-2015	Seminar	One day seminar on Energy Management & Audit system Sponsored by: Society of Power Engineering(SPE), Vadodara Organized by: Neo tech Institute of Technology College, Vadodara
March-2015	Workshop	One day Energy Conservation Awareness Workshop Sponsored by: Gujarat Energy Development Agency (GEDA) Organized by: Government Engineering College, Valsad.
March-2015	Workshop	Workshop on Latex Organized by: Open Source Technologies Club of Gujarat Technological University
March-2013	Workshop	State level one day workshop on “Ramanujan Mathematics Awareness Programme(RMAP) Sponsored by: Indian Society for Technical Education (ISTE), New Delhi Organized by: Department of Applied Mathematics
Feb-2013	Training Program	Sensitization Training Program on HIV/AIDS Sponsored by: Gujarat State AIDS Control Society Organized by: Faculty of Social Work, The M S University of Baroda
Feb-2010	Workshop	Automotive and Engine Design conducted by Metawing Tech organized by footprints'10, FTE, MSU
Aug-2009	Workshop	Top gear, Organized by: Paramarsh'09, FTE, MSU
July-2008	Course	Microsoft Unlimited Potential Course Sponsored by: Government of Gujarat Organized by: CAP Foundation, Hyderabad
June-2006	Programme	Computer Awareness Programme Sponsored by: Gujarat Council on Science & Technology (GUJCOST)-Gandhinagar Organized by: District Community Science Centre - Surat
May-2006	Camp	Summer Vacation Hobby Camp (3 days) Sponsored by: Gujarat Council on Science & Technology (GUJCOST)-Gandhinagar Organized by: District Community Science Centre - Surat

#### PROJECTS UNDERTAKEN

Year	Funding agency	Title of Project
2019-20	CSIR-FTT	Deployment of Integrated process for enhancement of brine evaporation rate @ 30-40% to improve yield of solar salt in existing areas
2017-19	CSIR, Mission	Mission mode Programme on commercial deployment of salt and

	Directorate, Govt. of India	potash technologies to augment national capability
2018-19	CSIR, Mission Directorate, Govt. of India	CSIR-Integrated Skill Initiative Program - Solar Salt production process and quality control aspects (SSP&QC)
2018-19	TNSC and CSMCRI	Expert analysis & necessary technical inputs to increase salt yield at salt works of TNSC operating in the Vallinokkam Village of Ramanathapuram District in Tamil Nadu
2017-19	CSIR, Mission Directorate, Govt. of India	Improving quality of salt with simultaneous recovery of sodium sulphate through scientific intervention, in Nawa - Didwana region of Rajasthan
2017-19	CSIR, Mission Directorate, Govt. of India	Integrating solar salt technologies for value addition (in-house Project)
2017-19	CSIR, Mission Directorate, Govt. of India	CSIR Jigyasha Programme
2017-18	The All India Skin and Hide Tanners and Merchants Association Leather Centre	Pilot scale proof-of-concept demonstration to separate sodium chloride and sodium sulphate, from solid waste generated through evaporation of RO reject of tanneries' effluent, meeting the purity requirements of the user industries

#### ACADEMIC PROJECTS UNDERTAKEN

2014-15	Experimental Analysis of Thermal Contact Resistance across different composite material pair using different interface material. Objective of this research to minimize thermal contact resistance in various thermal applications
2011-12	Experimental Analysis on Transient Heat Transfer in three different solid geometries aim of this project to carrying out study of temperature along with time on spherical, cubical & cylindrical object of the same material and weight.
2011	Study of water resources & optimization of the use in GGCL aim of this project improved the efficiency of use of water & reduced the waste and losses in Gujarat Gas Company Limited (MNC), Surat
2011	Energy Audit & Energy Management in GGCL aim of this project to increase the efficiency and to minimize the energy consumption in Gujarat Gas Company limited (MNC), Surat.

#### EXPERTISE

Designing, fabrication, installation & commissioning of equipment, field-scale experiments and pilot plant activities, product & process development, implementation of the developed process in the field scale, optimization of process parameters of thermo-chemical process,. operation & maintenance of salt handling equipments, salt quality upgradation, mechanization and of solar salt works, effective use of solar energy in solar salt R&D works, overall field monitoring & supervision of salt activities.

#### DECLARATION

I hereby declare that all the information above is complete and true to the best of my knowledge and belief.

