



- 1) Name (in Block Letters) : **Prof. DR.NIRMAL KUMAR,J.I. Ph.D ; FNEA,AFGSA**
- 2) Father's Name/Mother's Name : Late Kruparao J
- 3) Date of Birth : 15-07-1964
- 4) Sex (Gender) : Male
- 5) Marital Status : Married
- 6) Nationality : Indian
- 7) Name of the employer :Institute of Science and Technology for Advanced Studies and Research (ISTAR), Vallabh Vidyanagar-388 120
- 8) a) Designation : **Professor and Ex-Principal,**
b) Last Basic pay and scale (including grade pay): 37600-10000 -67000 +AGP Scale Rs. 60,500/- (Basic), Rs. 1,73,530/- (Gross) as on July,2022
- 9) Address for correspondence (with Pin code): Ashirwad, 5B, Vaibhav Society, Nr. Muslim Hostel, Vallabh Vidya Nagar-388 120, Anand
Mobile No. : 9825968242
E.mail: [:nirmalkji@gmail.com](mailto:nirmalkji@gmail.com),
[:nirmalkumar@istar.edu.in](mailto:nirmalkumar@istar.edu.in)

A. Educational Qualifications:

Class	Board/ University	Year of Passing	Division /Class	Percent	Subject-Science
HSC	Interme. Board, Hyd	1981	First	83%	B,Z,C,P
B.Sc.	Andhra University	1984	First	72%	B,Z,C
M.Sc.	Bhopal University	1986	First	62.5%	Botany- Plant Physiology
Ph.D.	Sardar Patel University, Gujarat	1990	Awarded		Botany- Environ. Physiology
Researcher	Center for Ecological Sciences, Indian Institute of Sciences, Bangalore	1994-96	-	-	Western Ghats Biodiversity Network & PBR

Thesis Entitled :Ecological Studies of Certain ponds with reference to Eutrophication and Weed growth in and around Anand, Gujarat, From Sardar Patel University, Gujarat.

Teaching Experience : Total 31 Years and as a Professor: 13 Years

(ii) Posts Held:

Designation	Organization / Institution / Department	Date of Joining		Salary with Grade Pay
		From	To	
Lecturer	P.G. Department of Botany, Jai Hind College, Deopur, Dhule, M.S., India	July,1991	May 1996	Rs. 2200-75- 2800-100-4000 Pay Scale Gross 6000/-
Head and Selection grade (Reader)	Department of Biosciences, NVPAS College, Vallabh Vidyanagar, 388120, Gujarat, India	June, 1996	May, 2005	Rs. 10000/- Basic in 8000-12000 Pay Scale Gross 40000/-
Reader and Head, EST ----- --- Professor and Head, EST	P.G. Department of Environmental Science and Technology, ISTAR, Vallabh Vidyanagar, 388120, Gujarat, India	June,2005 ----- June, 2009		37400-10000-67000+AGP Gross 75000/- Approved Professor by Sardar Patel University from 2009
Principal	ISTAR, Vallabh Vidyanagar, 388120	July, 2017	October, 2021	37600-10000 -67000 +AGP Scale Rs. 58,440/- Basic Rs. 1,73,530/- Gross
Professor and Head EST	ISTAR, Vallabh Vidyanagar, 388120	October, 2021 Onwards	Retired On 01.08.2022	37600-10000 -67000 +AGP Scale Rs. 60,500/- Basic Rs. 1,73,530/- Gross/

- 1) Recognized as a Student Inspirer in Science by Department of Science and Technology (DST), New Delhi.(www.inspire-dst.gov.in).

Worked under Prof. Madhav Gadgil, Head, Center for Ecological Sciences (CES), Indian Institute of Science (IISc), Bangalore, for 2 years (1994 to 1996) on “Biodiversity Inventory Network Program of Western Ghats of India”.

During My Tenure As a Principal, ISTAR institute achieved many remarkable milestones and proved one of the brightest stars in the Galaxy of the Science and Technology, Education and uplifted to State and National level by acquired top rank in GSIRF and NIRF rankings

www.nirmalkumarji.in , <https://www.youtube.com/watch?v=vZBQVj96Xt0> , INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH (ISTAR) - Bing video

1. **ISTAR ranked 1st Position in GSIRF ranking among all colleges in Gujarat, adjudged by KCG, Govt. of Gujarat, Gandhinagar for the year 2021.**
2. **ISTAR ranked 1st position in GSIRF ranking among all Engineering & Technology institutes of Gujarat, adjudged by KCG, Govt. of Gujarat, Gandhinagar for the year 2020.**
3. **ISTAR ranked 3rd position in GSIRF ranking among all colleges in Gujarat, adjudged by KCG, Govt. of Gujarat, Gandhinagar for the year 2019.**
4. **ISTAR ranked between 101-150 among all colleges in India, adjudged by NIRF, MHRD, New Delhi, for the year 2020.**
5. **ISTAR ranked between 151-200 among all colleges in India, adjudged by NIRF MHRD, New Delhi, for the year 2021.**
6. **ISTAR has also made many MoUs in various departments and conducted many Science and Technology oriented Webinars and Seminars.**
7. **Absolute University results with Distinctions followed by First classes in All M.Sc programs**
8. **Conducting Regular campus placements to all students of all courses every year for upliftment of students careers.**
9. **Impart quality education by conducting curricular, co-curricular and extracurricular activities.**

B. Abroad Visits:

- a. I have presented a paper, entitled “Biomonitoring of selected freshwater macrophytes to assess lake trace element contamination: A case study of Nalsarovar Bird Sanctuary, Gujarat, India” in International conference on Environmental Science and Technology, at Houston, Texas, USA, 19-22 August, 2006.
- b. Laboratory visit and work shop on Phyto-remediation in Department of Earth and Environmental Sciences, University of Texas at San Antonio, Texas, USA, 23-25 August, 2006.
- c. Presented a paper entitled “Anthropogenic interventions of Nal Sarovar Bird Sanctuary, Gujarat, India” in International symposium on Wetlands 2006 at University of Michigan, Acme, Michigan, USA from 28-31 August, 2006 USA,
- d. Visited university of Cincinnati, Cincinnati, Ohio State, USA from 3rd to 5th October, 2007 and attended meeting on ‘Nano-Pollution and Toxicology’ and joint venture dealing with the Department of Environmental Science and Engineering for students and teacher exchange program.
- e. Visited North Carolina A&T State University, at Greensboro and Raleigh, USA for departmental collaborations as well as constructed wetland field from 8-10th October, 2007.
- f. Visited and delivered a lecture in Environmental Research Center, Missouri University of Science and Technology, Rolla, MO, USA from 23rd October to 06th November, 2011.
- g. Visited and interacted with Dr. Prasada Rao, Sr. Scientist, observed state-of-art facilities on toxicology US Environmental Protection Agency USEPA, Raleigh-Durham, NC, USA from 7th and 8th Nov. 2011.
- h. Visited and interacted with Prof. Susan Jannigs, Director, Department of Sustainable Development, Massachusetts University, Dartmouth, Boston, USA on 9th Nov. 2011.

- i. Visited and developed international joint venture research collaboration with National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan with Dr. Nobuyoshi Yamashita from 8th to 15th May, 2016.

ii. International Collaborations -MoUs:

1. Visited and developed international joint venture research collaborations with Dr. Nobuyoshi Yamashita, Chief senior Research Scientist, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan, May, 2016 . Two of my Ph.D students pursued cutting edge of research work on Emerging Pollutants like Persistent Organic Pollutants, first of its kind in Gujarat and second effort in India, for three years in Japan.
2. Visited and Developed joint venture program between EST department, ISTAR and Department of Architectural and Environmental Engineering, Missouri University of Science and Technology, Missouri, USA, for students and faculty exchange (MoU) program from 11th January, 2013.
3. Visited and Developed joint venture program between EST department, ISTAR and Department of Civil and Environmental Engineering, University of Cincinnati, Cincinnati, Ohio, USA, for students and faculty exchange (MoU) program on 24th December, 2008

iii. National Collaborations -MoU: For students training, project work and placements.

- Developed MoU with GUIDE, Bhuj, Kachchh, Gujarat
- Nandesari Industrial Association (NIA), Baroda
- Green Group of Industries, Baroda
- GUJCOST, Gandhinagar
- Vidyanagar Nature Club, Vallabh Vidyanagar.

iv. Details of any Innovations / Unique Activity involved during Professional Career:

- ❖ Developed two new courses and departmental labs for B.Sc Environmental Science and Bio -Sciences (As A Head) in NVPAS College in the year 1996 and M.Sc Environmental Science and Technology (As a Head) in ISTAR (1999), Vallabh Vidya Nagar, Gujarat, first of its kind in the state of Gujarat.
- ❖ Pioneering in initiating the **GREEN AUDIT CELL, CVM (As a Coordinator)**, evaluating the educational institutions for Green Practices, Environmental and Sustainable ambience of institutions (as per the NAAC, MoEFCC, NCART) along with Gujarat Cleaner Production Cell (GCPC), Department of Industries and Mines, Govt. Of Gujarat, Gandhinagar from 2018 onwards, which is the first of its kind in the state of Gujarat.
<http://greenaudit.ecvm.net/TEAM.html>

C. Memberships in Academic Organizations:

1. Member, American Chemical Society, 1155 Sixteenth Street, NW, Washington, DC, 20036, USA, 2012 onwards.
2. Life member, The Indian Science Congress Association, 14, Dr. Biresh Guha Street, Kolkata 700 017 2005 onwards
3. Life member, National Environmental Science Academy (NESA), New Delhi 2016 onwards
4. Life member, Fellow, Gujarat Science Academy, Ahmedabad, Gujarat 2009 onwards
5. Life member, Fellow, National Environmental Association NEA, Ranchi, Jarkhand, 2011 onwards
6. Life member, Indian Association for Air Pollution Control, Baroda, India 2016 onwards
7. Life member, National Institute of Ecology (NIE), New Delhi. 2005 onwards
8. Chairman, Board of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat 2001-2002
9. Member, Board of Bioscience, & Faculty of Sciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat 2000 till 2019.
10. Chairman, Board of Interdisciplinary & Member, Faculty of Sciences, The Charutar Vidya Mandal University, Vallabh Vidyanagar, Gujarat 2020-20022

Editorial Board member:

- ✓ Associate editor Asian J of Environmental Science, Muzaffarnagar, 251 001, India. Executive council member, 2007-2010
- ✓ Associate editor International Journal of Pollution Research, EM international, Pune India Member in Editorial Board from Jan. 2008 -2012 onwards.
- ✓ Associate editor Editorial Board of the' International Journal of Nature, Environment and Pollution Technology Pune, M.S ,India from Jan. 2008 -2012 onwards
- ✓ Associate editor International Biannual J of Environmental Sciences, THE ECOSCAN (ISSN: 0974-0376), NEA, Ranchi
- ✓ Associate editor Editorial Board of the' International Journal of Ecology, Environment and Conservation, EM International, Pune India . for the year 2000 – 2002
- ✓ International Journal of Ecology and Environmental Sciences, NIE, New Delhi
- ✓ International Journal of Nature Conservation,
- ✓ International J Nature, Environment and Pollution Technology,

ii. Guide-ship:

- Recognized as P.G. teacher and Ph.D. Guide in the subject of Botany by S.P. University, Syndicate letter dated. 15.5.1999.
- Recognized as Ph.D. Guide in the subject of Environmental Science by S.P. University in the State of Gujarat.
- Recognized as Ph.D. Guide in the subject of Biotechnology by S.P. University in the State of Gujarat –March, 2008.
- Recognized as Ph.D. Guide in the subject of Biotechnology and Environmental Science by CVM University in the State of Gujarat –March, 2020.

D. Areas of Research:

Global Warming, Climate change, Biodiversity Monitoring, Conservation and Restoration, Forestry and Wetland Sustainable Ecology, Surface water Pollution Monitoring and Abatement, Environmental Biotechnology- Bioremediation and Biodegradation, Toxicology, Nanoscience,




Research Experience : 37 years

Research Paper Publications : 235






Books : 22

Ph.Ds. awarded : 19 (Nineteen) from Sardar Patel University



List of students with their topic and subject, received Ph.D under Prof. Dr. Nirmal Kumar, J.I.

Sr. No.	Name of Student	Title of the Thesis	Passing /Awarding Year	University
1	Dipaben Premchandbhai Lalwani, Environmental Science 	Occurrence And Distribution Of Emerging Pollutants In Different Environments And Biological Matrice	March, 2022	Sardar Patel University, Vallabh Vidyanagar, Anand.
2.	Dhruvi Atulkumar Chokshi, Environmental Science 	Studies On Soil And Atmospheric Exchange Of Greenhouse Gas Emission, Ambient Air Quality Monitoring And Air Pollution Tolerance Index In Relation To Climatic Factors Of Different Habitats Of Central Gujarat, India	April, 2018	Sardar Patel University, Vallabh Vidyanagar, Anand
3.	Hiralben Yashvantkumar Soni, Biotechnology 	Comparative Investigation On Synthesis, Characterization Of Metallic Nanoparticles And Their Applications In Dye Decolouration, Biocidal Activity And Abatement Of	August, 2017	Sardar Patel University, Vallabh Vidyanagar, Anand.

		Pollutants From Industrial Effluents And Agriculture		
4.	<p>Megha Hareshkumar Baraot, Environmental Science</p> 	Studied On Biodiversity, Nutraceutical And Biofertilizer Properties Of Certain Seaweeds Of Eco-Sensitive Zone, Western India	September, 2017	Sardar Patel University, Vallabh Vidyanagar, Anand.
5.	<p>Nidhi Rajeshkumar Parmar, Biotechnology</p> 	Exploration Of Diet Dependent Shifts In Ruminal Microbes Of Indian Buffalo And Cattle Through Met Agenomic	August, 2016	Sardar Patel University, Vallabh Vidyanagar, Anand.
6.	<p>Rohitkumar Bhoi, Botany</p> 	Ecological Investigations Of Dry Tropical Forests Of Aravalli Hills At Udaipur And Bhilwara, Western India With Spatial Reference To Tree Diversity, Biomass And Nutrient Dynamic	September, 2016	Sardar Patel University, Vallabh Vidyanagar, Anand.
7.	<p>Shamiyan Rahat Khan, Environmental Science</p> 	An Evaluation Of Bioremediation Of Petrol, Kerosene And Diesel By Indigenous Fungal Bacteria Consortium And Their Deleterious Responses – <i>In Vitro</i> And <i>Ex Situ</i>	September. 2015	Sardar Patel University, Vallabh Vidyanagar, Anand.
8.	<p>Jignasababen Girishchandra Patel, Biotechnology</p>	An Investigation Of Toxicological Effects And Bioremediation Of Model Polycyclic Aromatic Hydrocarbons – Anthracene And Pyrene On Cyanobacterial And	September. 2015	Sardar Patel University, Vallabh Vidyanagar, Anand.

		Bacterial Consortium – <i>In Vitro</i> And <i>Ex Situ</i>		
9.	Kantilal Patel, Botany 	Structural And Functional Studies Of Dry Tropical Forest Of Western India With Reference To Plant Biodiversity, Biomass, Nutrient Dynamics And Carbon Sequestration	October, 2015	Sardar Patel University, Vallabh Vidyanagar, Anand.
10.	Yamini Varma, Environmental Science 	Environmental Studies Of Two Tropical Wetlands Ecosystem In Relation To Abiotic And Biotic Components Of Central Gujarat, India	June, 2013	Sardar Patel University, Vallabh Vidyanagar, Anand.
11.	Basil George, Botany 	Environmental Studies On Biotic Components In Relation To Nutrients Status Of Selected Sites Of Narmada And Tapi Estuaries, Gulf Of Khambhat, Gujarat, India	January, 2012	Sardar Patel University.
12.	Manmeet Kaur Amb, Botany 	An Investigation Of Differential Effects Of 2,4-D And Pencycuron On Three Species Of Cyanobacteria In-Vitro – A Biochemical And Molecular Approach	January, 2012	Sardar Patel University, Vallabh Vidyanagar, Anand.
13.	Anubhuti Anand Bora, Biotechnology	Biochemical And Molecular Approaches To Investigation The Impact Of Endosulfan And Tebuconazole On The Three Species Of Cyanobacteria - <i>Anabaena</i>	February, 2012	Sardar Patel University, Vallabh Vidyanagar, Anand.

		<i>Fertilissima Rao, Aulosira Fertilissima Ghose And Westiellopsis Prolifica Janet.</i>		
14.	Sajish P.R. Botany 	Am Assessment Of The Nutrient Profile And Biotic Components Of Mahi Estuary And Vamleshwar Mangrove Of Gulf Of Khambhat, Gujarat, India	June, 2012	Sardar Patel University, Vallabh Vidyanagar, Anand.
15.	Manishita Malay Das, Environmental Science 	Ecological Studies On Spatial And Temporal Pattern Of Hydro Geochemical Characteristics In Relation To Biotic Components Of Two Tropical Wetlands Of Central Gujarat, India	April, 2011	Sardar Patel University, Vallabh Vidyanagar, Anand.
16.	Cini Oommen, Botany 	Pollution Studies Of Two Distinct Tropical Lentic Wetlands Of Central Gujarat With Reference To Spatial And Temporal Heterogeneity Of Biotic And Abiotic Components	May, 2011	Sardar Patel University Vallabh Vidyanagar, Anand.
17.	Shailendrasinh Vijaysinh Viyol, Environmental Science 	Spatial And Temporal Variations Of Hydrogeochemical Properties In Relation To Biotic Components Of Two Permanent Tropical Estuaries Narmada And Tapi Of Gujarat, India	May, 2011	Sardar Patel University, Vallabh Vidyanagar, Anand.
18.	Hiren B. Soni, Environmental Science	Environmental Studies Of Two Significant Wetlands Of Gujarat With Particular	November, 2007	Sardar Patel University Vallabh

		Reference To Eutrophication And Avifauna		Vidyanagar, Anand.
19.	Bhatt Ira R. Environmental Science 	An Assessment Of Biochemical Response Of Cynobacteria To Toxic Pollutants From Industrial Wastewaters	April, 2006	Sardar Patel University Vallabh Vidyanagar, Anand.

ii. Ph.D. and M.Sc. students have received various prizes and awards under my guidance.

Sr. No.	Name of the Ph.D. Students	Name of the Guide	Prize	Events (Seminar/Symposium/Workshop)	Date
1	Ms. Jignasha Patel	Prof. Dr.Nirmal Kumar	First	Science Excellence- 2014 Gujarat University, Ahmedabad	4th January, 2014
2	Ms. Shamiyan Khan	Prof. Dr.Nirmal Kumar	First	National seminar on Climate Change in Indian context MS. University Baroda.	14th December, 2013
		Prof. Dr.Nirmal Kumar	Best Paper Award	International Conference, Phuket, Thailand	June, 2015
3	Ms. Megha Barot	Prof. Dr.Nirmal Kumar	First	National seminar on Climate Change in Indian context MS. University Baroda.	14th December, 2013
		Prof. Dr.Nirmal Kumar	First	GUJCOST Sponsored National Level Symposium on "Clean Water for a Healthy World"	10th March, 2014.

				MS. University Baroda.	
		Prof. Dr.Nirmal Kumar	First	Best Ph.D. Thesis Award, Gujarat Cleaner Production Centre (GCPC), Gandhinagar	March, 2020
4	Ms. Hiral Soni	Prof. Dr.Nirmal Kumar	First	Science Excellence- 2014 Gujarat University, Ahmedabad	4th January, 2014
		Prof. Dr.Nirmal Kumar	Third	GUJCOST Sponsored National Level Symposium on “Clean Water for a Healthy World” NV Patel Science college, SPU	10th March, 2014
		Prof. Dr.Nirmal Kumar	First	Poster Competition in International Conference “Waste to Wealth” at Vadodara	8 & 9 October, 2015
		Prof. Dr.Nirmal Kumar	First	Best Ph.D. Thesis Award, Gujarat Cleaner Production Centre (GCPC), Gandhinagar	March, 2018
5	Ms. Dhruti S. Patel	Prof. Dr.Nirmal Kumar	First	Best Ph.D. Thesis Award, Gujarat Cleaner Production Centre (GCPC), Gandhinagar	March, 2019
6	Ms. Mayuriaka Rohit	Prof. Dr.Nirmal Kumar	First	Best M.Sc. Thesis Award, Gujarat Cleaner Production Centre (GCPC), Gandhinagar	March, 2019
7	Ms. Shivani Patel	Prof. Dr.Nirmal Kumar	First	Best M.Sc. Thesis Award, Gujarat Cleaner Production Centre (GCPC), Gandhinagar	March, 2020
8	Ms. Deepa Lalwani	Prof. Dr.Nirmal Kumar	First	Poster Competition in “National Seminar on Climate Change”, Vadodara	August, 2018
9.	Mahisa Patel	Prof. Dr.Nirmal Kumar	II	Best M.Sc. Thesis Award, Gujarat Cleaner Production Centre (GCPC), Gandhinagar	March,2021

iii. List M.Sc Dissertations / Thesis

1.	Rameshwari Maharaul	Impact of Simulated Placer Mining on the sub-tidal Macrofauna.	2006
2.	Preeti Suthar	Impact of simulated mining on Intertidal Meiobenthos at Kalbadevi Beach, Ratnagiri: An Experimental Approach	2006
3.	Namrata Shah	Impact of Human Interference on Intertidal microbenthos at Miramar beach, Goa.	2006
4.	Dipti Panchal	Utilization of ETP sludge from Gujarat state fertilizers and chemicals limited as suitable and efficient manure	2007
5.	Shailendra Viyol	Evaluation of Methane Emission from the rice fields and wetland ecosystems of Anand District, Gujarat, India.	2007
6.	Hinali Patel	Effect of pH on Detoxification of Heavy metals & nutrients by immobilized Cyanobacteria using Industrial water.	2007
7.	Hiral Patel	Influence of artificial diets on fecundity of <i>Chrysoperla carnea</i> (STEPHENS) (Neuroptera: Chrysopidae)	2007
8.	Shweta Patel	Biochemical assessment of Nitrogen fixing cyanobacteria <i>Aulosira fertilissima</i> Ghose to acute toxicity of Lead Nitrate	2008
9.	Gazala Qazi	Studies on Nutrient composition and tree diversity during low temperature condition of two contrast forests of Rajasthan, India.	2008
10.	Ragini Mishra	Efficiency of evaluation of Agricultural waste for the removal of nutrients from aqueous solution.	2010
11.	Hetal Patel	Biosorption of Cadmium using living <i>Aspergillus niger</i> with special reference to change in pH, enzyme activity and FT-IR analysis.	2011
12.	Khyati Shah	Biosorption of Cadmium using growing <i>Penicillium chrysogenum</i> with special reference to pH, enzyme activity and FT-IR analysis.	2011
13.	Priyakanchini Gupta	To study the fluxes and controlling Edaphic factors of CO ₂ , CH ₄ and N ₂ O from Eucalyptus plantations and dry tropical deciduous forest of Gujarat, India.	2011

14.	Dhara Patel	Investigations on Carbon sequestration in three distinct tropical plantations of Anand district, Gujarat, India.	2012
15.	Shamiya R Khan	An assessment of pollution status of Narmada River at J' point	2012
16.	Hiren Goswami	The comparative study of Physico-chemical characteristics of effluents of Omkar textile and Betex textile. (Co.)	2013
17.	Sandip Patel	An Industrial dissertation report on ETP plant in G.N.F.C. at Gujarat Narmada Valley Fertilizer Co. (Co.)	2013
18.	Makwana Dipak	An Industrial dissertation report on primary treatment of Industrial waste water at Common Effluent Treatment Plant (CEPT) Nandesari. (Co.)	2013
19.	Hiral Patel	The comparative study of Physico-chemical characteristics of effluents of Omkar textile and Betex textile (Co.)	2013
20.	Bhavisha Desai	Checking the Inhibitory effect of Organophosphat & Organochlorine pesticides and Biosurfactant producing property of selected microbial strains	2013
21.	Megha Barot	Some intermediate bio- transformants during biodegradation of high molecular weight Phenanthrene and Fluoranthene by cyanobacterial species- <i>Aulosira fertilissima</i> Ghose.	2013
22.	Annie Kizhakkodan	Effect of different pesticides on selected gram positive bacterial strains and checking of their Biosurfactant property	2013
23.	Bijal Gajjar	Determination of Short- term Green House gas Emissions by static chamber methods from two distinct microcosmos of central Gujarat, India	2013
24.	Savan Patel	A Study on the determination of Inhibitory effect of pesticides on common soil microorganisms and checking of their Biosurfactant property	2013
25.	Mansi Banker	Ex-situ studies on petrol, kerosene & diesel degradation by indigenous fungal isolates from various aged petroleum effected soils for environmental cleanup.	2014

26.	Sneha Raj	Environmental Investigation Of Seaweed Distribution, Biochemical Constituent And Their Antifungal Activity From The Okha Coast Gujarat	2014
27.	Ankita Prajapati	An Assessment Of Potential GHG Emissions Between Soil- Atmospheric Interaction, Ambient Air Quality Monitoring And Air Pollution Tolerance Index Of Certain Ecosystems Of Central Gujarat	2014
28. s	Sachi Shule	Studies on distribution and phytochemical composition of Marine algae- Phaeophyceae in relation to the environmental gradients of Okha coast, Gujarat, India	2015
29.	Azzarudin Shaikh	An Assessment Of Pesticides V/S Organic Fertilizer And Its Environmental Effects On Soil Properties In Two Distinct Agricultural Areas Of Central Gujarat	2015
30.	Reema Mandal	An evaluation of two distinct ,contrast and significant wetlands of central Gujarat with special reference to trophodynamics and anthropogenic interventions	2015
31.	Chirag Charel	Studies On Distribution And Phytochemical Constituents Of Marine Algae With Special Reference To Rhodophyceae In Relation To The Environmental Gradients Of Okha Coast, Gujarat, India	2015
32.	Priyanka Joshi	Qualitative and quantitative assessment of tree biodiversity in two distinct urban areas, Vidyanagar and New Vallabhvidyanagar Central Gujarat, India.	2015
33.	Pratik Senghani	Evaluation of heavy metal contamination in selected water bodies of Kachchh: Utilization of natural absorbent for removal of Cr ⁺⁶ : Isotherms and kinetics study	2015
34.	PARTH DIPAKBHAI PANSURIYA	To Estimate the water and heavy metal(copper) analysis on marine Fish (Rastrelliger Kungurta) at Veraval Sea coast	2021
35.	POOJA KISHANBHAI GOHEL	Waste water treatment plant	2021

36.	PRIYANSHI PRAKASH DELVADIYA	Synthesis, Characterization of Plant Activated Charcoal (PAC) And Remediation of Pollutants from Industrial Effluents.	2021
37.	RAINABAHEN PRAVINBHAI GUNDANIYA	Screening of Biochemical Profile of Selected Tree elements (Neem and Peepal) across state and national highway crossroads of central Gujarat.	2021
38.	RASHMIBEN CHANDRAKANTBHAI CHAUHAN	TDS Reduction in Effluent.	2021
39.	RIDDHI RAMESHBHAI BHANDERI	Monitoring the Floating Vegetation Through Remote Sensing Techniques	2021
40.	RINKU PASWAN	Study of Wastewater management of Dairy Industry.	2021
41.	RIYA PIYUSHBHAI PATEL	Surface Water quality Assessment of Swarup Sagar Lake Using Discriminate Analysis and WQI	2021
42.	SAGAR VINODBHAI MISTRY	An Assessment of Impacts of Climate change on Ambient air quality and Human Health of Surat City, Gujarat, India	2021
43.	SHASHANK CHANDRAKANT PATEL	Assessment of water quality of Sewage Treatment Plant in Beepee Coating Berger Paints.	2021
44.	SHASHIRAJ PRAVINSINH SOLANKI	Environmental and Ecological Interrelationships between sediments quality, vegetation structure and mangrove crab at BEYT Dwarka (OKHA MANDAL), Western Coast of Gujarat,	2021
45.	SHESHABEN KALPESHBHAI PATEL	Overview of Water- quality Parameters on Effluent Treatment Plant of Panchamrut Dairy	2021
46.	SHIVANGI RAJENDRAKUMAR SHETH	Environmental profile of Hydro-chemical properties at suburban water tank (Vaododra), Central Gujarat.	2021
47.	SHUCHI DEEPAK KUMAR SHARMA	Comparative investigation on synthesis, characterization, dye decoloration and remediation of nutrients from industrial effluents by TIO ₂ and ZnO metallic Nanoparticles.	2021

48.	SHWETABEN BIPINCHANDRA PATEL	COD Reduction in wastewater by Using Biological Treatment	2021
49.	VISHWAS PARSHURAM GAWAS	A Evaluation of Online real time effluent water monitoring system with laboratory analysis in relation to guidance of GPCB and SPCB	2021
50.	VIVEK PRAVINBHAI PATEL	Study of various wastewater parameters at sewage treatment plant of Petlad Nagarpalika	2021
51.	YAMINI RAMESHBHAI RAVAL	Treatability study for effective reduction of COD, BOD, TDS and TSS From effluent of Plant industry by using different chemical methods	2021
52.	RAMESHBHAI PURABHAI CHAUDHARY	Comparative Analysis of Physiochemical Parameter of waste water in Banas Dairy.	2021
53	DARSHIT DHARMESHKUMAR SHAH	An Assessment of Impacts of Climate change on Ambient air quality and Human Health of Ahmadabad City, Gujarat, India.	2021

Every year atleast 6 to 10 M.Sc. EST students undergo project work and dissertation.

E. Attended on-hand Training:

- * Attended workshop on Molecular biology and Bioinformatics on Marine Cyanobacteria from 2nd to 7th March, 2008, National Facilities for Marine Cyanobacteria, Bharatidasan University, Tituchirapali, T.N. India.
- * Attended 9-days “Multi-Institutional Teachers’ Training Programme in Molecular Biology and Bioinformatics” organized by Gujarat State Biotechnology Mission (GSBTM), Gandhinagar, from 21st February to 1st March 2006.
- * Attended program on Advances in Environmental and Biological Technologies, Department of Civil and Environmental Engineering , Department of Civil and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, USA from 21st October to 05th Nov.2011.

A. Fellowships:

- Recipient of P.D.F from CSIR, New Delhi for one year –1990-91 (consolidate pay of Rs. 2450/- p.m).
- Recipient of SRF from CSIR, New Delhi for one year-1989-90 (Consolidate pay of Rs. 2100/- p.m).
- Recipient of JRF from CSIR, New Delhi for two years-1987-89 (consolidate pay of Rs. 1800/- p.m).

B. Nature Club: As ex-officio , Actively conducted Nature Club with the goals of following activities:

- ✓ To make students aware of the nature, environment and conservation.
- ✓ To bring out the talent of the students, nature club conducts various competition events
- ✓ To provide platform to students on various burning issues
- ✓ To explore various forests, protected areas – wildlife sanctuaries, national parks and eco-tourism places and other ecosystems, nature club organizes nature trips
- ✓ To enrich the knowledge, nature club conducts guest lectures.
- ✓ To aware latest developments in the subject Seminar presentations will be conducted regularly among students.

ISTAR: Conducted various competitive events for National Science Day Celebrations

C. Designing of Curriculum:

- Participated in workshop for the formulation of S.Y. B. Sc and T.Y. B. Sc Botany syllabus in the year 1992-93, North Maharashtra University, Jalgaon.
- Participated in the formulation of M.Sc. Botany including Biotechnology and Environmental sciences in the year 1993-94, North Maharashtra University.Jalgaon.
- I have been Participating in the formulation of B.Sc Botany syllabus and Environmental Sciences since 1996, S.P. University, Vallabh Vidyanagar- 388 120.
- Involved in the formation of curricula of M.Sc Environmental Science of S.P. University in the year 2000 and 2006 and 2008 for M.Sc Environmental Science and Technology.

D. Designing of New Courses:

- Formulated new courses of B.Sc Environmental Sciences and Biotechnology in the year 1996-97 and 97-98, S.P. University, Vallabh Vidyanagar- 388 120.
- Formulated new course of M.Sc. Environmental Science and Technology in the year 1999-2000, ISTAR, S. P. University.

E. University Assignments:

1. Worked as Examiner for practical as well as theory at B. Sc level for the year 1993 to 1996 of North Maharashtra University, Jalgaon. Maharashtra, India.
2. I have been working as Examiner (Assessment) and paper setter for practical as well as theory at B. Sc level since 1996 in the subject of Botany and Environmental Sciences, S.P. University, Vallabh Vidyanagar- 388 120. Gujarat
3. I have been working as Examiner (assessment) and paper setter for practical as well as theory at M. Sc level since 2000 in the subject of Environmental Sciences, S.P. University, Vallabh Vidyanagar- 388 120.
4. As an external paper setter and examiner in M.Sc Environmental Science ,North Gujarat University, Patan, Gujarat , since 2006.
5. As an external examiner , since April, 2008 in B.Sc Environmental Science ,M.S University, Baroda, Gujarat.

F. Conferences, Seminars, Symposium and Workshops (Organized)

1. Gujarat: Its Environment & Challenges on 19/10/99 , Organized by NVPAS, Vallabh Vidyanagar
2. Bio-resource Wealth of Gujarat – Its Conservation and Sustainable Utilization, on 19th November 2000. Organized by NVPAS, Vallabh Vidyanagar
3. Emerging Environmental Impacts of Narmada Waters in Gujarat, on 2nd February 2003. Organized by NVPAS, Vallabh Vidyanagar
4. One day Seminar on Environmental Science conducted on 24th December,2008 Organized by EST, ISTAR
5. Conducting 2 or 3 local /Regional seminars / workshops every year Organized by EST, ISTAR since 2011
6. National seminar on “Advances in Environmental Science and Technology –A way forward to clean and Green Environment” on 28th Feb.2015 Organized by EST, ISTAR
7. National seminar on Environment, Pollution and Climate Change on 15 th Februaty,2018 sponsored by Gujarat Ecology Commission, Rs. 1,00,000/

G. Delivered Lectures:

- 1) Delivered an expert talk on “Climate Change and Consequences” at V.P. Science College, V.V. Nagar, on 5th February, 2014.
- 2) Invited as a Jury in “Green Business Competition”, at SEMCOM at V.V. Nagar on 9th February, 2014. Vallabh Vidya nagar .
- 3) Attended Indo-German Convention at Science City, Ahmedabad, on 15th November, 2013, along with Ph.D. students of ISTAR (EST).
- 4) Delivered a lecture on “Trends in Biological Science” at Applied Chemistry Department , SVNIT, Surat on 22nd December,2010 DST sponsored National Program on INSPIRE INTERNSHIP-2010.
- 5) Attended 9-days “Multi-Institutional Teachers’ Training Programme in Molecular Biology and Bioinformatics” organized by Gujarat State Biotechnology Mission (GSBTM), Gandhinagar, from 21st February to 1st March 2006.
- 6) Attended orientation course on’ Strategies to develop the Forestry of Gujarat’, organized by Gujarat Forest Department, Gandhinagar on 21 st March 2000.
- 7) Presented guest lecture on ‘Inventory and Monitor the Biodiversity’ in training workshop on Plant Taxonomy for Biodiversity conservation held from 27 th January to 2 nd February, 1999 conducted by S.P. University sponsored by Gujarat Ecological Society (GES) Baroda.
- 8) Presented contributory lectures on M.Sc Environmental Sciences students in ISTAR on 11 th to 13 th September, 2000 on the topics of Global Climate Changes, Paradigms of Biodiversity, Monitoring of Diversity, Processes of Eutrophication, Impact of air pollution on plants.
- 9) Attended number of project review meetings conducted by Gujarat Forest Department, August, 1999, Gandhinagar and Rajpipla.
- 10) Presented contributory lectures on Ecology and Biotechnology for M. Sc part-III students from January to March 1994 in G.R.P Science College, Jalgaon.
- 11) Presented contributory lectures on Ecology (Hydrobiology) for M. Sc –Botany part-III students in S.S.G.M. Science College, Kopargaon on 29 th and 30 th March, 1993.

F. Conferences, Seminars, Symposium and Workshops (Attended / Presented)

a. International Level:

- 1) Attended 6th International Conference on Industrial Hygiene & Safety, CIHA, Ahmedabad from 7-9th January, 2019.
- 2) Attended 5th International Industrial Hygiene and Safety Conference, CIHA at Pune - INDIA from 22-24th January, 2018
- 3) As Jury for the poster presentation in International Seminar on "Science & Technology", M.B. Patel Science College, Anand from 10-12 March, 2015
- 4) Attended International conference on "Waste to Wealth- Resource Recovery for Sustainable Development" from 8th and 9th October, 2015 conducted by Green Circle and M.S. University, Baroda
- 5) Delivered lecture on 'Evaluation of Eutrophication in relation to Biotic environment of certain tropical habitats of Gujarat, India' on 4th November 2011 at McNutt Hall, MST, Rolla, MO, USA. International
- 6) Presented paper in International conference on Biodiversity and Aquatic toxicology from 12-14th February, 2011, conducted by Nagarjuna University, Guntur, Andhra Pradesh and worked as co-chairperson for one of the sessions.
- 7) Attended Delhi International Renewable Energy Conference-DIREC 2010 from 27th to 29th October, 2010 at Greater Noida, Delhi.
- 8) Presented paper on International Symposium on Environmental pollution, Ecology and Human Health at Department of Zoology, S. V. University, Tirupati, India during 25-27 July, 2009. International
- 9) Presented a paper in International Symposium on Applied Phycology – Algae in Biotechnology and Environment (ICAP 2006), on 14th and 15th February 2006, at New Delhi.
- 10) Presented A paper in International conference on Environmental Science and Technology at Houston, Texas, USA on Biomonitoring of selected freshwater macrophytes to assess lake trace element contamination: A Case Study of Nal Sarovar Bird Sanctuary, Gujarat, India during August, 2006. International
- 11) Presented A paper in International conference on Wetlands-2006 held at Acme, Michigan, USA on Assessment of Anthropogenic pressures of Nal Bird Sanctuary of Gujarat, India, during August, 2006. International
- 12) Presented a paper and Participated in the International Seminar on Eco-restoration, held at Indian Council for Forest, Research and Education, Dehra Dun, on 14th to 19th October 2003. International
- 13) Presented a paper and Participated in the Global conference on Environmental Education from November 6 – 10, 2001, New Delhi. International
- 14) Presented a paper and Participated in the "International Conference on Tropical Aquatic Ecology" held on 25th to 30th October, 1999 in Nainital.

b. National Level:

1. Participated in discussion meeting on 'Net working to conserve the Biodiversity of Western Ghats' from 4th to 7th April, 1994 held at Center for Ecological Sciences (C.E.S), Indian Institute of Sciences (IISc.), Bangalore- 560 012. National level
2. Participated in the workshop conducted on 'Western Ghats Review Meeting' held at C.E.Sc, IISc. on 13 to 14 January 1996. National level
3. Participated in the workshop conducted on 'Western Ghats Biodiversity Network' at C.E.Sc, IISc from 23rd to 25th May 1995. National level
4. Delivered a talk on 'Impact of Pollution on Aquatic Biodiversity' in the meeting held on Documenting Biodiversity at C.E.Sc, IISc on 26-29, October, 1995. National level

5. Presented a paper and Participated in the National Symposium on Plant Morphogenesis held on 29-30 Dec. 1997 conducted by S.P. University
6. Participated in the National workshop organized by Gujarat Agriculture University, Anand on Medicinal and Aromatic Plants in June 1998.
7. Participated in the National workshop on "Wetland conservation strategies" held on 30 th April to 1st May, 1999 organized by WWF-India, Baroda.
8. Attended National Academy Meeting in Goa on 24 th to 26 th November, 2000, organized by Indian Academy of Sciences, Bangalore.
9. Participated in one-day National workshop on " Green House Technology" at Gujarat Agriculture University, Anand on 7.6.2001.
10. Presented a paper and Participated in the National Seminar on Aquatic Biodiversity – and sustainable use of Bio-resources from October 10 – 12, 2002, Bhopal, M.P.
11. Participated in One day National seminar on "DNA Structure and Genome Analysis", organized by M. S. university, Baroda, Society of Biochemists, India, on 28th September 2003.
12. Presented a paper on "Study of Eutrophication in relation to plant diversity in Wetland – Ratheshwar, Central Gujarat", in National Academy of Sciences, India (NASI), 73rd annual meeting and symposium on Astronomy in the New Millennium, held at Physical Research laboratory, Ahmedabad, from 10th to 12th October 2003.
13. Presented a paper entitled "An Assessment of Anthropogenic interventions of Shoolpaneshwar Wildlife Sanctuary", and Participated in National Conference on Plant Sciences-2004, held at Shri Sarvodaya Kelavani Mandal, Gandhinagar, on 25th to 27th November 2004.
14. Attended one-day National seminar on "Emerging Technologies" on 12th January 2005, conducted by Department of Science and Technology, Science City, Gandhinagar.
15. Attended 2 day National workshop on Hydrology & Management of Lakes, sponsored by National Institute of Hydrology, Roorkee, at University of Udaipur, Udaipur, on 19th & 20th January 2005.
16. Attended 3-days National Seminar on 'Enviro Technology 2005' at Taj Presidency, Baroda, on 23rd to 25th September 2005.
17. As a Chairperson in Conference on Advances in Environmental Sciences at Natubhai V. Patel college of Pure and Applied Sciences, Accredited- A, Vallabh Vidya nagar, Gujarat on 9th September, 2008.
18. As a Co-Chairperson in "National Conference on Taxonomy Teaching and Research: The Relevance in the National Context" at Shri R. K. Parikh Arts and Science College, Petlad, Gujarat on 27th September, 2008.
19. Attended "3rd National Conference of National Environmentalists Association (NEA) on Environmental Science and Technology for Sustainable development", organized by "IQAC, Govt. College for Women", Srikakulam, Andhra Pradesh, from 18th to 20th January, 2009.
20. Attended one day National Seminar on Air Pollution Management in changing Global Environmental Scenario" on 7th Feb.2010 as a Judge conducted By M.S. University, Baroda.
21. Attended National summit on "Chemical Industry 2020- Vision and Action , conducted by Ankleshwar Industrial Association on 3 and 4 th June,2010, at Ankleshwar.
22. Attended 21st Mid meeting of Indian Academy of Science, Bangalore from 1-3rd July,2010 as a Invited Teacher.National level
23. Attended 79th Annual meeting of Indian Academy of Sciences, at Goa from 12th to 14th November,2010.National level

24. Attended the National symposium on status , challenges and opportunities in Life Sciences held on 10th September,2011 and adjudged the poster competition events organized by ARIBAS, New Vallabh Vidya nagar-388121, Gujarat.
25. Attended and adjudged post lunch session of National Seminar on ‘New perspectives of Natural sciences’, 7th January, 2012 conducted by NVPAS college, Vallabh Vidya nagar.
26. Invited as a Chair Person in National Seminar on Climate Change in Indian Context, organized by M.S. University of Baroda, on 14th December, 2013.
27. Delivered a talk on “Paradigms of Biodiversity” in refresher course in Life-science on 17th January 2014,conducted by Academic Staff College, S.P. University
28. Invited as a Chair Person in National Seminar on “Indian Water Congress”, at GCET, V.V. Nagar on 8th February, 2014.
29. Invited as a Jury in National Seminar on Clean Water for a healthy World on 10th March,2014 conducted by NV Patel College of Pure and Applied Sciences, Vallabh Vidya nagar .
30. As a Coordinator of the one day National Seminar organized on ‘Advances in environmental Science and Technology – A way forward to Clean and Green Environment’ on 28th Feb.2015.
31. As a Jury for poster competition during National Seminar on Waste management organized by S.M. Patel college of Home Science, Vallabh Vidyanagar July,2015.
32. Delivered invited lecture on Wetland macrophytes as indicators of pollution , Gujarat, during National workshop on “Wetlands” by GEER foundation Gandhinagar February,2017.
33. Organized National Seminar On Environment, Pollution and Climate Change on 30th Januray,2018 in BVM Engineering College. Conductedby EST,ISTAR.
34. As a Jury in National seminar on “Green Chemistry and Technology for sustainable Development” organized by GCET, Vallabh Vidyanagar on 19th January,2019.

c. State Level

1. Participated in XII Gujarat Science Congress held at S.P. University on 15-16, February 1997.
2. Presented a paper and Participated in the” Regional workshop on WETLANDS- Conservation and Strategies held on 9 th to 11 th February, 2003, organized by GEER foundation, Gandhinagar.
3. Attended a one-day state level seminar on “College Science Education: Challenges and Opportunities”, at Hemchandracharya North Gujarat University, Patan, North Gujarat, on 4th September 2004.
4. Delivered a talk on ‘Wetland Monitoring’ at Gujarat Pollution Control Board(GPCB), Gandhinagar, on 7th April 2006.
5. As a Chairperson during post lunch session of state level seminar on ‘ Physiological and molecular interventions on sustainable crop productivity under changing climatic conditions’, on 17th January,2012 organized by Indian Society for Plant Physiology and Medicinal and Aromatic Plants Association of India, Anand.
6. Delivered a talk on trends in ‘water quality of lake Nalsarovar’, conducted by Gujarat Forest Department , Nalsarovar 12th Feb,2013.State level
7. Invited as a Chief Guest in valedictory function of Refresher Course in Agricultural Science, at Academic Staff College, SPU, Vallabh Vidyanagar, 7th December, 2013.
8. Attended –State Level Workshop on Quantifying the Impact & Relevance of Scientific Research, Organized by V.P. & R.P.T.P. Science College, Vallabh Vidyanagar, Gujarat, India, 13 August 2014.

9. Attended– State Level Seminar on Opportunities and Current Status of Medicinal Plant Research, Organized by V.P. & R.P.T.P. Science College, Vallabh Vidyanagar, Gujarat, India, 11 November 2014.
10. Delivered TWO expert talks on Climate change and its consequences and another Bioremediation and Biodegradation of contaminated soils on 28th and 29th April, a one week workshop on “Environmental Degradation and conservation” organized by BVM Engineering college from 25th to 30th April, 2016
11. Attended One Day Seminar on “MET-Aware - 2016” at GCET Auditorium, jointly organized by NVPAS & IMSA, Ahmedabad on 16th July, 2016.
12. Delivered invited talk on Bioremediation and Degradation of xenobiotic compounds 27th March, 2017 in VP and RPTP science college, Vallabh Vidyanagar.
13. Delivered invited talk on Wetlands eutrophication with reference to Nutrient status on account of World Water day celebrated by GECT college, on March 22nd 2017
14. Delivered expert Talk on “Surface Water Pollution with special reference to Eutrophication – A Man-made Threat”, at GCET Engineering College, V.V. Nagar on 23th March, 2017
15. Delivered invited talk on account of World Earth Day, on 22nd April, 2017 entitled : Climate change and its effects on Mother Earth, at ADIT, New Vallabh Vallabh Vidyanagar.
16. Attended Workshop on Municipal Waste Management on account of World Habitat Day at ADIT, New Vallabh Vidyanagar on 5th October, 2017.
17. Attended KIA Workshop: Domain Knowledge at ARIBAS, New V.V. Nagar from 13-14 March, 2019.

d. Orientation / Refresher Course / Quality Improvement Programme (QIP) attended: (Three weeks or more).

Sr. No.	Name of the Course	Place	Dates		Duration in Weeks	Sponsoring Agency
			From	To		
1.	<i>Orientation Course</i>	<i>Aurangabad</i>	<i>6th April</i>	<i>2nd May, 1992</i>	<i>4 weeks</i>	<i>ASC, Dr. Babasabha Ambedkar University</i>
2.	<i>Refresher Course in Botany</i>	<i>Varanasi</i>	<i>11th July</i>	<i>31st July, 2000</i>	<i>3 weeks</i>	<i>ASC, Banaras Hindu University</i>
3.	<i>Refresher Course in Life Sciences</i>	<i>Chennai</i>	<i>9th Feb</i>	<i>1st March, 2005</i>	<i>3 weeks</i>	<i>ASC, University of Madras</i>

G. Details of completed Research Projects as PI:

Name of the agency	Year		Total Budget (Rs.)	Title of the Projects
	Started	Completed		
1. Indian Institute of Sciences, Bangalore	1994	1996	70,000/-	Conservation of Biodiversity of Western Ghats – Navapur Forest, Maharashtra

2. Gujarat Forest Department, Gandhinagar	1997	1999	3,51,000/-	Environmental Studies of Certain Forests of Gujarat with special reference to Biodiversity & Ethnobotany
3. Gujarat Forest Department, Gandhinagar	1998	2000	3,50,000/-	Ecological Studies of Protected Areas of Gujarat with special reference to Anthropogenic Pressures
4. Ministry of Environment and Forest (MoEF), New Delhi	2003	2006	7, 25, 625/-	Environmental Studies of Wetland – Nal Sarovar of Gujarat with Particular Reference to Biodiversity, Eutrophication and Anthropogenic Pressures
5. sponsored by University Grants Commission, New Delhi.(C0.I)	2005	2008 (March)	Rs. 5,06,600/-	Study of Biodiversity, Ethnobotany and Anthropogenic interventions of Saputara and Purna Forests of North Extreme Part of Western Ghats, India,
6. Foundation for Ecological Security,NDDB Campus, Anand, 388 001 Gujarat.	2007	2009	Rs. 6,00,000/	An evaluation of nutrient dynamics and plant community studies in dry tropical forests of Rajasthan:
7. Foundation for Ecological Security,NDDB Campus, Anand, 388 001 Gujarat.	2007	2009	Rs. 4,00,000/	Environmental study of some important wetland habitats of Anand district, Gujarat with special reference to biodiversity, eutrophication, anthropogenic pressures and their site specific management strategies
8. Ministry of Earth Science, New Delhi, India	2007	2010	Rs. 07,93,000/	An Evaluation of Pollution status in relation to Biodiversity of Narmada and Tapi Rivers of Gujarat, India.
9. University Grants Commission, New Delhi, India.	2008	March, 2011	Rs. 11,00,000/-	Morphological, Biochemical, Phylogenetic and Molecular characterization of xenobiotic Cyanobacteria
10. Ministry of Environment	2008	March, 2011	Rs.14,89,000	Environmental studies of pollution inrelation to

and Forest (MoEF), New Delhi				Biodiversity of Gulp of Kambat, Gujarat, India.
11.Gujarat Ecological Commission, Gandhinagar	February, 2014	July, 2014	Rs.5,22,000	Ecology of rivers of Gujarat.
12. University Grants Commission, New Delhi, India.	April, 2013	March,2017	12,30,000	An assessment of biochemical compounds in relation with environmental constituents and phylogenetic relationships by barcoding of different Seaweeds from Okha coast of Gujarat, India.
13.GUJCOST, Gandhinagar, Gujarat, India	April, 2013	March,2016	2,30,000	Evaluation and assessment of GHGs emissions from different ecosystems of Gujarat, India.
14. National Institute of Advanced Industrial Science and Technology (AIST), Japan	May 2016	June,2019	75,00,000/	Global transportation distribution and degradation of Persistent Organic Pollutants(POPs) - India Perspective
15. Climate Change Department, Gandhinagar, Gujarat	April,2020	March,2021	10,00,000/	Assessment impact of Climate change on Air quality, Human health and Vulnerability of important cities of Gujarat.

(iii). List of Certificate of Contribution, Appreciations ,Gaurav Puraskar, Honors and Award,

S.No	Name of Award, Year	International /National/ State level	Purpose /Field	Agency/ Organization
1.	Hari Ohm Ashram Award,1997	State level	Best Research Paper in Botany	Hari Ohm Ashram Prerit Shri Bhaikaka Inter university trust, Gujarat
2.	Performance of Exemplary award, 2007	State level	Excellent performance as a Teacher, Researcher, Student mentor with cash prize	Charutar Vidya Mandal ,Gujarat

3.	International Collaboration, 2008	International level	Environmental Science and Technology	Dr.Daniel Oerther , Prof.Susan Chair, University of Cincinnati, Cincinnati, USA
4.	Appreciation Award,2008	State level	Contribution in Environmental Field Research	State level Seminar NVPAS College, Gujarat
5.	Fellow ,NEA 2009	National Level	Environmental Science	National Environmental Association (NEA) Ranchi , India
6.	Biography Published in Who's Who of the World,2009	International Level	Biography	Marques's Who's Who in the World, New Jersey, USA
7.	Appreciation Award,2009	National level	Environmental Researcher of the year	National Seminar NVPAS,Gujarat
8.	Dr.C.K.Shah Award,2009	State Level	Best Research Paper in Botany, Agri.Botany, Biotechnology	Sardar Patel university, Gujarat
9.	Appreciation Award,2010	State Level	Best Researcher of the year	State Level Seminar, I V Patel College, Nadiad, Gujarat.
10.	Dr.C.K.Shah Award,2011	State Level	Best Research Paper in Botany, Agri.Botany, Biotechnology	Sardar Patel university, Gujarat
11.	Appreciation Award,2011	State level	Outstanding contribution in Environmental Sustainable Research	National Symposium, NVPAS College, Gujarat
12.	Associate Fellow,GSA,2011	State Level	Education and Research	Gujarat Science Academy, Ahmedabad, Gujarat
13.	International Collaboration,2012	International Level	Environmental Science and Technology	Missouri University of Science and Technology, Rolla, Missouri, USA
14.	Bharat Shiksha Ratna Award,2012	National level	In the Field of Education	Global Society for Educational and Health, Delhi, India
15.	Member, American Chemical Society, 2012 onwards	International level	In the field of Environmental Chemistry	American Chemical Society, 1155 16th St NW, Washington, DC 20036
16.	Appreciation Award,2014	National level	Outstanding Achievements in Environmental Education	DST, Govt Sponsored National Seminar, NVPAS, Gujarat
17.	Appreciation Award,2014	State level	Excellence in Science Education	North Gujarat University, Patan , Gujarat
18.	Appreciation award, 2014	National level	Outstanding Achievements in Science Education	GSBTM sponsored National Seminar , NVPAS, Gujarat
19.	Life Member, 2016	National level	Environmental Science	National Environmental Science Academy, New Delhi

20.	Bharat Ratna Dr.Radhakrishnan Gold Medal Award ,2018	National level	Individual Achievements and National Development	Global Economic Progress and Research Association, Chennai.
21.	Appreciation award, 2018	National level	Contribution towards Environmental Education and Research	National Seminar on Environmental Pollution and Climate Change , Gujarat
22.	International Collaboration, AIST, 2018	International Level	Environmental Science and Technology	National Institute of Advance industrial Science and Technology, Japan
23.	Gaurav Puraskar,2018	State level	Contribution in Environment and Education	Charutar Vidya Mandal ,Gujarat
24.	Gaurav Puraskar,2019	State level	Contribution in Sustainable Development and conservation of Forests and Wetlands	Charutar Vidya Mandal ,Gujarat
25.	Top III rank , 2019	State Level	College Ranking, Among All College in Gujarat.	GSIRF, Knowledge Consortium of Gujarat, Govt of Gujarat, Gandhinagar, Gujarat
26.	Bharat Vidya Shiromani Award,2019	National level	Outstanding Achievements and Remarkable role in the field of Education	Indian Solidarity Council, New Delhi
27.	Certificate of Contribution,2019	State Level	Contribution in Environmental Science	Gujarat Cleaner Production Centre & jointly with Environment and Forests Department , Gandhinagar Gujarat , MoEFCC
28.	Top I rank , 2020	State Level	Among All Engineering College, Gujarat	GSIRF, Knowledge Consortium of Gujarat, Govt of Gujarat Gandhinagar, Gujarat,
29.	Top 101-150 ranking, 2020	National level	Among All Engineering colleges in India	NIRF Ranking , New Delhi, Only 3 colleges in Gujarat from 1 to 200 list during my tenure as Principal
30.	Gaurav Puraskar,2021	State level	Excellence in the field of Education and Scientific Research	Charutar Vidya Mandal ,Gujarat
31.	Top I rank , 2021	State Level	Among All College, Gujarat	GSIRF, Knowledge Consortium of Gujarat, Govt of Gujarat Gandhinagar, Gujarat
32.	Top 151-200 ranking, 2020	National level	Among All colleges in India	NIRF Ranking , New Delhi, Only 3 colleges from 1 to 200 list Gujarat during my tenure as Principal

33.	Certificate of Contribution,2021	State Level	Contribution in Environmental Science	Gujarat Cleaner Production Centre & jointly with Environment and Forests Department , Gandhinagar Gujarat
34.	Certificate of Appreciation,2021	State Level	Contribution in Education and Teaching	Department of Education, Govt of Gujarat , Gandhinagar
35.	Global Eminent Scientist Award-2022	National level	Outstanding Services in Research	Vij Trust, Punjab
36.	International Education Award-2022	National level	Innovative Professor of the Year	Kiteskrafts Production, Ludhiana, Punjab
37.	Certificate of Appreciation 2022	State Level	Coordinator, Green Audit of Institutions	Gujarat Cleaner Production Centre & jointly with Environment and Forests Department , Gandhinagar Gujarat
38.	Education Excellence Award-2022	National level	Lifetime achievement award in Applied Sciences-Teaching and Charity work	Our Productions, Ludhiana, Punjab
39.	Pride of India,2023	National level	Best Educationist	Socially Point Foundation, Supported by NITI Aayog Govt.of India & Ministry of MSEM Govt India
40.	Shri Mahatma Gandhi Rashtriya Abhiman Puraskar-2023	National level	Field of Environmental Studies and Social services	Supported by Education and Research Foundation, NITI Aayog Darpan, New Delhi
41.	Swami Vivekanand Award-2023	National level	Outstanding contribution in Social work	The WAC Global Book Records, New Delhi
42.	Indian Pride ICON Award-2023	National level	Outstanding efforts in Education, Social services, helping poor and needy	IPIA Foundation, supported by NITI Aayog Govt.of India & Ministry of MSEM Govt India
43.	Certification of Contribution,2023	State level	Field of Environmental Science	Gujarat Cleaner Production Centre & jointly with Environment and Forests Department , Gandhinagar Gujarat
44.	International ICON Award-2023	National level	Life time Achievement award in Education and Scientific Research - Environmental Science and Technology	IIA Awards, New Delhi.
45.	MCI Award 2023	Stat Level	Outstanding contribution in	Methodist Church of India,Anand Gujarat

			Societal , Social Services and Helping poor and Needy	
46.	Best Teacher Award- 2023	State Level	P.G Senior Best Teacher in Biological Sciences	Gujarat Science Academy, Ahmadabad, Gujarat
47.	Best Researcher award	Global Level	Global Survey	The Times Global Academic Reputation Survey
48.	Brand ICON of the Year-2023	National Level	Best Teacher, Researcher and Social Worker	PPR Marketing Production, New Delhi
49.	STAR Education Award Award 2023	National Level	In Education	Government of Maharashtra & Education Department, Government of Maharashtra
50.	Invited Speaker 2024	International Conference	Chemistry for Security and Environment	National Forensic Sciences University, Gandhinagar
51.	Invited Speaker 2024	National Seminar	Industrial Pollution and Air Quality Index	M.S University, Baroda
52.	Best Teacher Award Gujarat State 2023	National Level	In the field of Education	Sustainable Development Goals, Veyil foundation, Recognized by Govt of India
53.	Certificate of Appreciation	Local	In the field of Education	Horeb Methodist Church, Anand, Methodist Church India .
54.	Best Teacher award -2024	Local	In the field of Education	Lions Club, International, Baroda, Gujarat
55	Invited Speaker	International Conference s	Advances in Basic sciences , Environmental StudiesDevelopments 21-23 November,2024	Banarus Hindu University, Banaras, UP, India
56	Eminent Scientist Award of the Year 2024	International Conference	Advances in Basic sciences , Environmental StudiesDevelopments 21-23 November,2024	National Environmental Science Academy, New Delhi & Banaras Hindu University, Banaras, UP, India
57	Invited speaker	National level	Conference on Topics in compexes systems -8-9 December, 2024	Dhirubhai Ambani Institute of Information and Computer Technology, Gandhinagar, Gujarat
58	Invited speaker	State level	Redefining Air, Past Lessons, Present actions, Future Possibilities-10 th January ,2025	IAQN, Indian Institute of Management, Ahmedabad, Gujarat
59	Invited Speaker	National Conference	Sustainable practices for Environmental Remediation 19-20, February,2025	Department of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab


60	Chief Guest	Local level	Educational Exhibition , 25 th February,2025	St.Xavioers English medium School, Anand, Gujarat
61	Invited Speaker	National conference	Sustainable Microbial , Agricultural Environmental Remediation on 10 th April,2025	St.Xaviers college , Ahmedabad, Gujarat

A. Research Contribution (Total 37 years of Research Experience):

Vidwan profile : <https://vidwan.inflibnet.ac.in/profile/270934>

Prof. Dr. Nirmal Kumar, J.I. - Goog
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<https://scholar.google.co.in/citations?user=upm4FnsAAAAJ&hl=en>



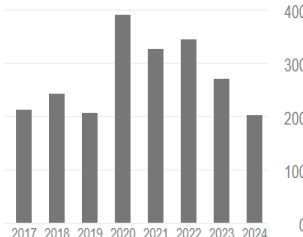
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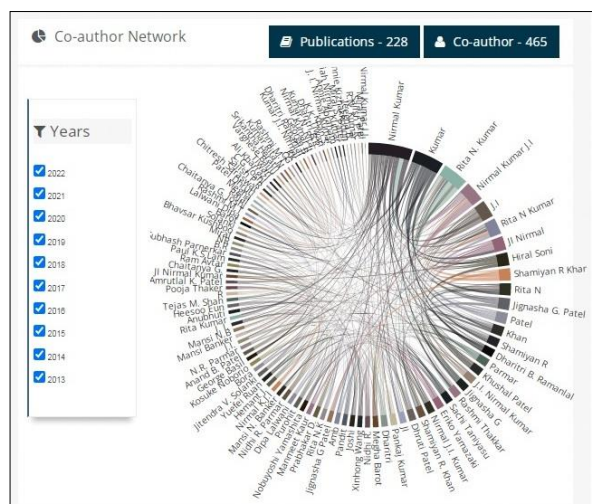
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11. Achievements in Brief:

Refer Website: www.nirmalkumarji.in _ <http://nirmalkumarji.in>

B. Academic Contribution: (Total 31 years of Teaching experience)

I am pioneer in starting and establishing B.Sc Environmental Science program (June,1998), first time in NV Patel College, M.Sc Environmental Science (June 2000) in ISTAR , first of its kind in Gujarat state from Sardar Patel University. Thereafter , many colleges and university departments have started these B.Sc & M.Sc programs in Gujarat. First Ph.D Guide in the Subject of Environmental Science in Gujarat from 2002.

Pioneering in initiating and conducting unique GREEN AUDIT CELL, CVM (My Campus and Green Campus) as a Coordinator evaluating the educational institutions for Green Practices, Environmental and Sustainable ambience of institutions (as per the NAAC, MoEFCC, NCART) along with Gujarat Cleaner Production Cell (GCPC), Department of Industries and Mines, Govt. Of Gujarat, Gandhinagar from 2018 onwards , audited 35 institutions in every phase per year for three consequent years, which is the first of its kind in the state of Gujarat. <http://greenaudit.ecvm.net/TEAM.html>, www.greenaudit.ecvm.net .

International Collaborations- MoUs : I have visited University of Cincinnati, Cincinnati, Missouri University of Science and Technology, Rolla,MO, University of Texas, at Huston , University of Texas, San Antonio USA, North Carolina A&T State University at Greensboro and Raleigh, USA US Environmental Protection Agency USEPA, Raleigh-Durham, NC, USA, Department of Sustainable Development, Massachusetts University, Dartmouth, Boston, USA, Acme, University of Michigan, Michigan, USA, National Institute of Advanced Industrial Science Technology, Ibaraki, Agriculture University, Tokyo, Japan for the scientific collaborations for the academic and research benefits of M.Sc and Ph.D students and investigated Advanced and crosscutting facets for academic, placement, research and training for P.G and Ph.D students. www.nirmalkumarji.in/International.html, www.nirmalkumarji.in/MoU.html.

National Collaborations - MoUs- I have made with Nandesari Industrial Association, Green Group of Industries , Baroda, GUIDE,GEC, Climate Change Department, Gandhinagar, Vidyanagar Nature club(VNC) for academic, placement, research and training for P.G and Ph.D students.

Subjects Taught at PG level : Climate Change and its consequences, Ecosystems analysis and Water Pollution, Environmental Biology & Restoration Ecology, Forestry, Biodiversity monitoring and conservation, Environmental Biotechnology, Bioremediation & Biodegradation, Occupational and Environmental Toxicology, Nano-science

C. INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH (ISTAR) - Bing video

<https://www.youtube.com/watch?v=vZBQVj96Xt0>

During my tenure as a Principal of ISTAR (2017 to 2021), institution has achieved many milestones, landmarks at National and State level. ISTAR achieved Top 1st Rank College among all colleges (2021) and Top 1st Rank college among Engineering and Technology institutes (2020) and Top 3rd rank college among all colleges (2019) in Gujarat, GSIRF ranking, Govt. of Gujarat. Besides, ISTAR ranked between 101 to 150 and 151 to 200 rank among all colleges in India during 2020 and 2021, respectively, in NIRF ranking at National level, New Delhi (<http://www.istar.edu.in>), only three colleges from the Gujarat out of the 200 rank list.

Press release: <http://www.nirmalkumarji.in/Press.html>

Impart Quality Education: I have time to time changed the curriculum as per the need of industry, introduced applied and industrial oriented topics, bridge classes, conducted students seminars, quizzes, presentations, unit tests, industrial, field and study trips, project work, competitions, co-curricular and extra-curricular activities etc

Students Campus placements: Regularly conducted campus placements by on-campus and off-campus process for Industries/ consultancies of Gujarat and other parts of India during the third and fourth semester of the Course every year. Now my students are placed all over Gujarat in MNCs, Large Scale and Medium scale Industries, Consultancies, Academic Colleges, Research organizations, and Some students go for higher studies in India or abroad. www.istar.edu.in/estplacement.php, www.nirmalkumarji.in/Campus.html.

Students Field / industrial visits: Every semester as a part of curriculum, I used to conduct field, industrial and study trips to various industries, ecosystems, forests, etc. so that students can abreast with practical knowledge and latest theoretical updates studied by them. www.nirmalkumarji.in/Field.html

Students Career guidance: I used to conduct career guidance to students of B.Sc and M.Sc for their better career progress every year in batch wise. www.nirmalkumarji.in/Career.html

Community /Charity services (Personal): I am willingness to always focus on how we can serve the local communities that make up our global world. I also passionate for social services and working voluntarily by providing the scholarships (Methodist Church , Anand , Gujarat), helping poor , needy, (P J. Stephen Paul Ministries, Secunderabad, Telangana), orphanage students (Popatbhai Foundation , Anand) , blind students (National Association for Blind, Vallabh Vidyanagar), old- age people(Anand Dham, Lambvel, Anand) by providing financial assistance, cloths, medicine and food regularly (also www.nirmalkumarji.in/helping.html).

Details of CV: www.nirmalkumarji.in/doc/NKj22.pdf

Information of Referees

	Referee 1	Referee 2	Referee 3	Referee 4
Name	Prof. Dr. Daniel Oerther, PhD, PE, BCEE, BCES, CEHS, DAAS, CEng, CEnv F.AEESP, F.AAN, ANEF, F.SOE, F.CIEH, F.RSPH	Prof. Dr. B.G.Patel M.Pharm, Ph.D	Dr. Nobuyoshi Yamashita	Dr. Bhailalbhai Patel, M.Phil, Ph.D
Designation	Professor, President ,American Academy of Environmental Engineers and Scientists USA & Deputy Chair Board of Trustees Chartered Institute of Environmental Health London, England	Ex-Principal , ISTAR, Ex-VC, S P Uni. Ex-PROVOST , CHARUSAT	Chief Senior Research Scientist	Registrar ,
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Above given information is correct to the best of my knowledge.

Prof. Dr. Nirmal Kumar, J.I.,

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<http://nirmalkumarji.in/Helping.html>

(<https://vidwan.inflibnet.ac.in/profile/270934>), <http://greenaudit.ecvm.net/TEAM.html>