

Personal details:

Name: Dr. Bhadreshkumar R Sudani
Designation: Assistant Professor, in Chemistry
Qualification: Ph.D. [Chemistry]
Experience: 15 years teaching
Area of Interest: Medicinal chemistry, Analytical chemistry, Environmental chemistry, Organic synthesis and heterocyclic compounds, Waste water management.

Profile: He is working as an Asst. Prof. of Chemistry at Government Engineering College, Valsad Since 2010. He has experience of teaching chemistry of about 15 years at various institutes. He had completed his Ph. D. from Veer Narmad South Gujarat University in field of Chemistry in the broad area of Organic synthesis and heterocyclic compounds and their biological activities. Prof. Sudani has about 15 years of teaching experience and has guided undergraduate and postgraduate projects, with a number of publications in national and international journals and conferences to his credit. His research interests include organic synthesis and heterocyclic compounds, water and waste water analysis and effluent management.

Educational Qualification

Exam	Name of Board	Month & Year
SSC	GSEB, Gandhinagar	March 1995
HSC	GHSEB, Gandhinagar	March 1998
BE/Btech/Bsc	Veer Narmad South Gujarat University, Surat	March-2001
ME/Mtech/Msc	Veer Narmad South Gujarat University, Surat	May, 2003
B.Ed.	Veer Narmad South Gujarat University, Surat	May-2005
M.Phil.	Annamalai University Chidambaram.	March-2011
PhD	Veer Narmad South Gujarat University, Surat	November, 2017
Hindi/Gujarat mukti	GSEB, Gandhinagar	March, 2012

Skills and Knowledge:**Courses Taught:**

- Unit Processes and Chemical Technology
- Chemistry
- Physical and Inorganic Chemistry
- Organic Chemistry and Unit Process
- Environmental Studies
- Applied Chemistry
- Advanced Environmental Instrumentation
- Chemical Process Industries-I
- Environmental Science-I

Training and workshop:

Sr. No	Title of Course	From	To	Duration (In Week)	Organizer
1	Short Term Training Course (Training Programme on Cleaner Production)	2/1/2012	6/1/2012	1	CO-Anchor Institute (Chemical & petrochemicals) L.D. College of Engineering, Ahmedabad.
2	Induction Training Phase-I	29-04-2013	10/5/2013	1	NITTTR, Ahmedabad
3	Short Term Training Programme on TFVT	9--12-2013	13-12-2013	1	SVNIT, Surat.
4	Short term course on Numerical Methods and its application in Engineering and Science	26-05-2014	30-05-2014	1	NITTTR, Bhopal
5	Short term course on Educational Programme Development	9--6-2014	13-06-2014	1	NITTTR, Bhopal
6	Induction Phase II	6--7-2015	17-07-2015	2	NITTTR, Bhopal
7	Developing Entrepreneurship Skills in Students	4--1-2016	8--1-2016	1	NITTTR, Ahmedabad
8	Recent Trends in Applied Chemical Sciences and Technology	17-10-2016	21-10-2016	2	SVNIT, Surat.
9	Application of Chemistry in Engineering	14-11-2016	18-11-2016	1	NITTTR, Ahmedabad
10	Recent Advances in Waste Management	23-01-2017	27-01-2017	1	SVNIT, Surat.
11	Advances in Pharmaceutical Technology	08-05--2017	19--05-2017	1	NITTTR, Ahmedabad

12	Innovative Teaching Methods for Applied Science and Mathematics	07-05--2018	11-05--2018	2	NITTTR, Bhopal
13	Nano Material in Condensed Matter and its Applications	25-06-2018	29-06-2018	1	NITTTR, Bhopal
14	Design of Experiments	10--06-2019	22-06-2019	2	BVM Engineering College, VV Nagar

Other training and workshop details

Sr. No.	Title of Course	From	To	Duration	Organizer
1	Karmyogi residensial Training for QIP in Technical Education	20-12-2013	22-12-2013	1 Day	Karmyogi residensial Training for QIP in Technical Education, CTE
2	Introductory to Organic Chemistry I MOOC	20-08-2019	18-10-2019	8 weeks	NPTEL, SWAYM, IISER-Pune, IIT-Madras

Portfolio:

- Member GTU-Innovation Club” **2020-present**
- Member, Institute Academic Audit committee. **2019-present**
- 100 Activity Points, GTU, Institute Coordinator, GEC, Valsad **2016-present**
- Co-ordinator, ECO-CLUB, GEC, Valsad **2017-present**
- Member, SSIP Institute Core Committee GEC, Valsad **2017-present**
- Member, House Keeping Institute Committee GEC, Valsad **2015-present**

Expert lectures / workshop organized:

- “Chemistry-Physics Poster Presentation-2016” Government Engineering College, Valsad, 07-May, 2016
- “Physics and Chemistry Poster Presentation-2014” Government Engineering College, Valsad, 05-September, 2014.

Expert lectures / workshop Delevered:

- Expert (Judge) for National Level Conference on “Current Trends and Advances in Chemical Science” sponsored by GUJCOST and UFFIZIO India Software Pvt. Ltd., organized by B. K. M. Science College, Valsad. (12-01-2020)
- Expert (Judge) for District (Valsad and Dang) Level INSPIRE-MANAK SCIENCE EXHIBITION-2019, inspired by GCERT and National Innovation Foundation-INDIA and organized by DIET-Valsad at DSC-Dharampur.(27-12-2019)
- Delivered a Popular Science Lecture on “Modern Periodic Table” for the celebration of International Year of Periodic Table (IYPT-2019) at District Science Center, Dharampur-Valsad among the teachers of Valsad and Dang District. (27-12-2019)

- Expert talk delivered as an invited speaker in GUJCOST sponsored one week short term training program on Modern Trends in Characterization Techniques With Hands on Experience on “GC-MS” held during 04-011-2019 to 08-11-2019 organized by Chemical Engineering Department and Co-Anchor Institute L.D. College of Engineering, Ahmedabad.
- Expert for Model Reformation Workshop for State at District Institute for Education and Training, Parnera Pardi, Valsad-396001.(22 & 23-10-2019)
- Expert Lecture delivered on “Student Startup & Innovation Policy GoG and Innovative Ideas” at Shah N. H. Commerce College, Tithal Road, Valsad-396001.(03-08-2019)
- Expert Lecture delivered on “Student Startup & Innovation Policy-Finance Utilization Guidance” at B. K. M. Science College, Valsad. (13-07-2019)
- Expert (Judge) for District (Valsad and Dang) Level INSPIRE-MANAK SCIENCE EXHIBITION-2019, inspired by GCERT and National Innovation Foundation-INDIA and organized by DIET-Valsad at DSC-Dharampur.(08-01-2019)
- Expert for S.M.E. Exhibition-2018 Orientation Workshop at District Institute for Education and Training, ParneraPardi, Valsad-396001.(10-09-2018)
- Expert(Judge) at GCERT and Valsad District Secondary School Science MandalSamrpan SVS organized SVS Science fair at Bai Ava Bai High School, Valsad.(18-09-2018)
- Expert (Judge) for District Level Science, Mathematics and Environment Exhibition inspired by GCERT, Gandhinagar and organized by DIET-VALSAD, District High School Science Club at Arunoday Sarvajanik Vidyalay-Kaprada.(28-09-2017)
- Expert for evaluating presentations on “Swachhh Bharat: Role of Science & Technology Promises and Challenges” at District Science Center, Dharampur. (26-07-2017)
- Expert talk delivered on “Competitive Exams” during N.S.S. Camp of Shah N. H. Commerce College, Valsad at Vaghdarda School, Velvach, Dist. Valsad.(10-07-2017)
- Expert for Orientation Workshop on JNNSHEE-2016 at District Institute for Education and Training, ParneraPardi, Valsad-396001.(22-09-2016)
- Delivered a Popular Science Lecture on “Nuclear Energy for Peace” at District Science Center, Dharampur during observance of The Hiroshima and Nagasaki Day. (06-08-2016)
- Delivered a Popular Science Lecture on “Science, Technology and Development in INDIA” at District Science Center, Dharampur during celebration of National Technology Day. (11-05-2015)
- Delivered a Popular Science Lecture on “Biodiversity, Sustainability and ECO-CLUB” at District Science Center, Dharampur during International Biodiversity Day Celebration. (22-05-2014)
- Expert for Model Reformation Workshop for State at DSC-Dharampur organized by District Institute for Education and Training, ParneraPardi, Valsad-396001.(29-10-2013)
- Expert (Judge) for State Level Science, Mathematics and Environment Exhibition for D. El. Ed. Institutes at Bhagini Samaj Kapilaben Mehta Mahila Adhyapan Mandir, Udwarda (RS).(24-10-2013)
- Expert (Judge) for 48th District Level Science, Mathematics and Environment Exhibition inspired by GCERT, Gandhinagar and organized by DEO-Valsad, DIET-VALSAD, District High School Science Club at Sarvodaya High School, Segvi, Valsad.(14-09-2012)

Projects guided: Post graduates -02, Under graduates -02

SSIP/Research/funded Projects: 1

Academic projects: NA

Paper published National / International Journals

1. Sudani, B. R., & Desai, V. A. **(2017)**. Synthesis, Characterization and Biological Evaluation of some 2, 3-dihydroquinazolinone coupled 5, 5-disubstituted imidazolidine-2,4-diones. *International Journal of ChemTech Research*, 10 (6), 441-445.
2. Desai, V. A., & Sudani, B. R. **(2016)**. Synthesis and Study of Antibacterial activity of some Thiazolidinone and Hydantoin Merged Heterocyclic Compounds. *World Journal of Pharm. Res.*, 5 (3), 838-845.
3. Desai, V. A., Mistry, P. P., & Sudani, B. R. **(2016)**. Synthesis, Spectroscopic, Thermal and Biological Aspects of Nickel(II) Complexes with Hydantoin. *International Journal of Chemical Pharm. Ana.*, 3 (2), 1-5.
4. Desai, V. A., Shah, T. J., & Sudani, B. R. **(2016)**. Novel Monocyclic β -Lactum Molecules: Design and Characterized as Possible Antibacterial Agents. *World. Journal of Pharm. Res.*, 5 (4), 1943-1950.
5. Shah, T. J., Sudani, B. R., & Desai, V. A. **(2016)**. Correlation of Two Pyrazoline Moity in a Single Molecule Via N-Linkage. *International Journal of Current Pharm. Res.*, 8 (6), 28-31.
6. Shah, T. J., Sudani, B. R., & Desai, V. A. **(2016)**. Synthesis, Characterization and Pharmacological Studies of Chalcone and Quinazolines Containing 2, 4, 6-trisubstituted s-Triazine Derivatives. *Journal of Chemistry and Chemical Sciences*, 6 (5), 493-503.
7. Sudani, B. R. **(2015)**. Comparative Study of Chemical, Physical and Biological Analysis of Some Pond Water Ecosystems in Valsad of the State Gujarat, India. *International Journal of Chemical and Physical Sciences*, 4 (1), 75-82.
8. Sudani, B. R., & Desai, V. A. **(2015)**. An Overview about Medicinal Chemistry and Pharmatutical Applications of 2,4-Imidazolidinone and its Derivatives. *Asian Journal of Pharmacy and Technology*, 5 (3), 153-157.
9. Sudani, B. R., & Desai, V. A. **(2015)**. Synthesis and Biological Activity of Chloro and Bromo Phenyl Hydantoin Derivatives. *J. Engg. Sci. & Manag. Edu.*, 8 (3), 202-204.
10. Sudani, B. R., & Desai, V. A. **(2015)**. Synthesis, characterization and antimicrobial activity of 3-(substituted piperazin) acetyimidazolidine-2,4-diones. *Der Chemica Sinica*, 6 (5), 122-125.
11. Sudani, B. R., Thummar, D. M., Sojitra, K. M., Gajera, A. D., & Bavariya, S. S. **(2014)**. Lab Scale Study of Water Hyacinth for Bioremediation of Waste Water. *International Journal of Research in Advent Technology*, 372-376.
12. Sudani, B. R. **(2014)**. A study of ground water chemistry of Gundlav GIDC area, Valsad-Gujarat. *International Journal of Chemical Studies*, 1 (5), 54-58.
13. Sikarwar, S. O., & Sudani, B. R. **(2013)**. Cost Reduction of Direct Ethanol Fuel Cell by Changing Composition of Ethanol and Electrode Material. *International Journal for Scientific Research & Development*, 1 (3), 653-656.
14. Suthar, H. G., Sudani, B. R., & Patel, N. M. **(2013)**. Electricity Generation Using Thermoelectric System from Waste Heat of Flue Gases. *International Journal for Scientific Research & Development*, 1 (3), 226-229.
15. Sudani, B. R. **(2012)**. Physicochemical and Biochemical Quality Assessment of Groundwater of Village Atul: Gujarat. *GIT-Journal of Engineering and Technology*, 5,

Full Papers in Conference Proceedings

1. Sudani B. R. "Recent Advances in Organic Synthesis and Applications" Full Paper is published in the proceedings of "National Symposium on Green Chemistry & Technology for Sustainable Development (NSGC-2019)" during 18-19 January, 2019 held at Department of Chemical Engineering GCET, Vidhyanagar. **ISBN:978-93-8439-55-5**
2. Sudani B. R., Bhatt S. H. and Desai V. A. "Ground water quality analysis of Pardi town with physiochemical and biochemical parameters", Full Paper is published in the proceedings of "UGC Sponsored National Seminar On Conservation of Natural Resources and Environment, Proceedings published" (Page-300) on 13 Sept, 2015 held at B.K.M. Science College, Valsad. **ISBN:978-81-926225-3-8**
3. Sudani B. R., Patel A. M. and Sudani N. B. (2014) "A Study on Different Methods of Typical Textile and Dyestuff Effluent Treatment by Advanced oxidation Processes", Full Paper is published in the proceedings of "Indian Water Congress: A National Conference on Resource Recovery, Water Reuse and Recycle for Sustainable Development" (Page-11) held during 7-8 Feb 2014, at Department of Chemical Engineering GCET, Vidhyanagar. **ISBN:978-93-80358-90-1**

Paper presented in Conferences

1. Sudani B. R. "Medicinal Chemistry of *Piper betel* and *Acacia catechu*: A Review" during GUJCOST sponsored NATIONAL LEVEL Conference on "Current Trends and Advances in Chemical Science" sponsored by GUJCOST and UFFIZIO India Software Pvt. Ltd., organized by B. K. M. Science College, Valsad on 12-01-2020.
2. Sudani B. R. "Radiation and Radio activity: Effects and Applications in Daily life" during GUJCOST sponsored STATE LEVEL seminar on Fundamental of Nuclear Reactor & Indian Nuclear Power Program Organized by B. K. M. Science College and NPCIL (Kakrapar Site) on 25-09-2019. **(1st winner of paper presentation)**
3. Sudani B. R., Patel J. C. and Jariwala A. I. "Shock Electrodialysis - A Modern Time Separation and Purification Technique: A Review" during National level Symposium on Advances in Separation and Purification Science and Technology, organized by the Department of Chemical Engineering, G. H. Patel College of Engineering, Vallabh Vidhyanagar, during 23-24 September-2016.
4. Sudani B. R. and Desai V. A. "Nitrogen Containing Heterocyclic Compounds: Synthesis and Biological Evaluation" during National level XXXIV annual conference, Indian Council of Chemists on 26-28 December 2015 at Department of Chemistry, UTU, Bardoli.
5. Sudani B. R., Sudani N. B. and Vasani K. A. "A Study about the Status of Science Education with Practical Work at Upper Primary Level in Valsad City", during National seminar on school classroom teaching & learning in new millennium, organized by Council of Teacher Education (CTE) Gujarat Chapter and P. P. Savani School Gardencity, Ankleshwar, on 22 April, 2017.
6. Sudani B. R. and Desai V. A. "MS-Excel: An Advanced and Scientific Tool in Research Methodology" during UGC sponsored state level seminar on Effective Research Methodology organized by Shah N. H. Commerce College, Valsad, on 4th March, 2017.
7. Sudani B. R. "Nuclear Chemistry and Admirable Path of Reactor Design & Development", during GUJCOST sponsored one day state level seminar on Nuclear & Atomic Energy

- Awareness, organized by B. K. M. Science College, Valsad, on 27th February, 2017. **(1st winner of paper presentation)**
8. Sudani B. R. "Practical Skill Development Through Open Ended Project Among The 2nd Year Undergraduate Students of Chemical Engineering" during National seminar on Skill development through education, organized by Dr. H. R. Gajwani College of Education in association with Council of Teacher Education (CTE) Gujarat, held at Gandhidham/Adipur during 30-31 January, 2016.
 9. Sudani B. R. and Desai V. A. "Synthesis and Antimicrobial Activity of some Azetidinone Derivatives with 5-5'-disubstituted Imidazolidine-2,4-diones" during International Conference on Recent Trends in Applied Sciences: Building the institutional and Industrial Avenues (ICRTAS-2015), organized by Shri A. N. Patel Post Graduate Institut, Anand-Gujarat, during 10-12 Dec, 2015.
 10. Sudani B. R. and Shinojiya V. R. "*Moringa Oleifera*: The Wonderful Plant With Tremendous Important Medicinal Uses", during National Conference on Innovations and Recent Trends in Drug Discovery Techniques, Radio-labeling and Applied Science Research, organized by Uka Tarsadiya University, Department of Chemistry and Maliba Pharmacy College, Bardoli., during 23-24 Jan, 2015.
 11. Sudani B. R. and Desai V. A. "Green Chemistry : Today's Need and some Case Studies", during UGC Sponsored State level Seminar on Green Chemistry For the Environment, organized by Chemistry Department, K.K. Shah, Jarodwala Maninagar Science College, Ahmedabad, during 12 Jan, 2015.
 12. Sudani B. R. and Desai V. A. "Synthesis Chemistry And Medicinal Importance of Some Recently Synthesized Hydantoin Derivatives As Bioactive Molecules: A Review", during 102nd Indian Science Congress-2015, Mumbai, organized by ISCA and Mumbai University, during 3-7 Jan 2015.
 13. Sudani B. R., Sudani N. B. and Vyas D. P. "Assessment of Some Pond Water Chemistry of Valsad Region: GUJARAT", During International Conference on Chemistry Cutting Edge: Nano, Green and Beyond, organized at Nadkarni SACASA Research Laboratory and ST. Xavours College, Mumbai., during 6-7, January 2014.
 14. Mistry P. P., Sudani B. R., Kortiwalla N. N. and Desai V. A. "Synthesis, Spectroscopic, Thermal and Biological Aspects of Nickel(II) Complexes with Hydantoin", during International Conference on Chemistry Cutting Edge: Nano, Green and Beyond, organized at Nadkarni SACASA Research Laboratory and ST. Xavours College, Mumbai., during 6-7, January 2014.
 15. Mistry P. P., Sudani B. R., Kortiwalla N. N. and Desai V. A. "Synthesis, Characterization And Biological Studies of Some Newly Prepared Hydantoin Derivatives Containing Amines", during at the XXVIII Gujarat Science Congress-2014 held at Hemchnadracharya North Gujarat University, Patan, during 22-23 Feb, 2014.
 16. Sudani B. R. and Soni H. K. "Study of Ground Water in Valsad City Region, Gujarat The state of India", during National Symposium on Green Chemistry & Technology for Sustainable Development (NSGC-2012) held at Department of Chemical Engineering GCET, Vidhyanagar, during 24-25 February, 2012.

Books published:

1. Sudani B. R. (2018) "Hydrogen Energy System: Steps Toward Sustainable Fuel Technology" by LAP LAMBERT Academic Publishing, Germany, **ISBN-13: 978-6139907496**

2. Sudani B. R.(2016) "Analytical Environmental Chemistry" by AkiNik Publications Rohini, Delhi-110085, India.**ISBN:978-9353350055**

3. Sudani B. R.(2015) "Experimental Chemistry for environmental Science and engineering" published by 24by7 Publishing, 13 New Road, Birati, Kolkata, West Bengal 700051 : **ISBN: 978-93-84882-66-2.**

Professional institution memberships: Life Member of Indian Science Congress (ISCA), Membership of Association, Council of Teacher Education (CTE)

Awards: Nil

Other achievements:

1. Sudani B. R. "Nuclear Chemistry and Admirable Path of Reactor Design & Development", during GUJCOST sponsored one day state level seminar on Nuclear & Atomic Energy Awareness, organized by B. K. M. Science College, Valsad, on 27th February, 2017.
(1st winner of paper presentation)
2. Sudani B. R. "Radiation and Radio activity: Effects and Applications in Daily life" during GUJCOST sponsored STATE LEVEL seminar on Fundamental of Nuclear Reactor & Indian Nuclear Power Program Organized by B. K. M. Science College and NPCIL (Kakrapar Site) on 25-09-2019. **(1st winner of paper presentation)**