Dr Sunil Jayant Kulkarni

Highlights

1. Member Board of Studies in Chemical Engineering, Mumbai University since September 2019 to sept 2022
2. Total Experience= 26 years (24 Years teaching)
3. No. of Books Published - 09
4. Scopus Indexed Papers and book chapters- 45
5. Scopus citation-126, h index -05
6. Google scholar citations- 2652. H index -24, i10 index -73
7. Conference papers – International-26, National-02
8. FDP/Workshops Organized =05
9. Conference Organized-1 national
10. Reviewed papers for Springer and Elsevier Journals

- **Objectives:**

To contribute proactively in the achievement of organizational goals and objectives while moving ahead on the path of professional growth and continuous self-improvement.

To carryout studies and research based on various chemical engineering topics and by doing the same,to gain knowledge for myself and use the knowledge and research for the students and society**.**

- **Personal**:

Name:	Dr. Kulkarni Sunil Jayant Email:suniljayantkulkarni@gmail.com,
Date of Birth:	22nd January,1977.
Nationality:	Indian
Marital status:	Married
Address:	A-201, Amarjyot CHS, Plot no 33, Sector 9, Khanda Colony, New Panvel(W)
Contact No.:	9664213953, 9833497367

- **Education:**

1. Ph.D(chemical Tech): Sant Gadge Baba Amravati University, Amravati, May 2017.
2. M.E(Chemical): Shivaji University, Tatyasaheb Kore Institute of Engineering andTechnology, Warananagar, 2006, First class,(69.1%).
3. B.E (Chemical): Shivaji University, Tatyasaheb Kore Institute of Engineering andTechnology, Warananagar, 1998, First class,(64.08%).

- **Experience: Teaching and Research – 23 years, Consultancy: 01 years**
- Presently working as Professor(01.09.2024) and Head(22.06.2024), Chemical Engineering Department at **Gharda Institute of Technology,** Lavel, Khed, Maharashtra. Joined the institute as an Associate Professor, Gharda Institute of Technology since 1 July 2019.

- Worked as Dean R and D, at Gharda Institute from 18 Nov 2021 till 22 June 2024.
- **Past Experience:**

1. **Datta Meghe College of Engineering, Airoli**: Worked an Assistant Professor in Chemical Engineering. Joined as lecturer on 6 July 2006 to 30 June 2019[13 yrs]. *Details*: Subjects taught: Process Calculation, Chemical Engg. Economics, Project Engg., Management, Environmental Engineering, Mass Transfer Operations.

   Subjects taught in last three years: Mass Transfer Operations I and Mass Transfer Operations II, Process calculation, Process Engineering.

   Roles and Responsibilities:

   Institute

   1. Worked as CAS monitor for three academic semesters in May 2014, June 2015 andDec. 2015. Also worked as member of unfair means committees.
   2. Involved in ISO activity and involved in the task of internal audit in ISO 9001:2008in Oct.2013
   3. Worked as a member on various committees in annual social function functions andconvocation functions.
   4. Presently member of Students Grievances committee.

   Department

   1. Co-coordinator of IIChE event N.R. Kamath Quiz -2019 at Chemical EngineeringDepartment of DMCE
   2. Co-coordinator of IIChE event N.R. Kamath Quiz -2017 at Chemical EngineeringDepartment of DMCE.
   3. Project coordinator for final year projects in chemical engineering Department.
   4. Class teacher during 2006-2009.
   5. Involved as organizing committee member in various events organized by departmentsuch as 'Outstanding young chemical engineering awards (OYCE)' in 2012 and 2016.
   6. Worked as project coordinator for final year projects at chemical engineering department, Datta Meghe College of Engineering Airoli and KES N.N. Patil EngineeringCollege, Pen, Raigad
   7. Active member of a core team for conduction of workshop, "Challenges for chemical engineering faculty to meet the needs of the industries", (CCEFI-13) , at Datta Meghe College of Engineering, Airoli, Navi Mumbai, 2013.

2. **Tawade Pollutech (Environmental Consultancy**): Executive, Technical, 14Sept.2005 to 5 July 2006. *Details:* Air & Water Quality Monitoring and Treatment, EIA studies, Water Quality analysis.

3. **K.E.S.N.N Patil Engg. College. Pen(Raigad):**Lecturer in Chemical, 2 Aug.1999 - 14 June 2005, *Details*: Subjects taught: Plant Utilities, Process Calculations, Fluid flow Operations, Biochemical Engineering, Environmental Engineering.

4. **Econ Pollution Control Pvt. Ltd-** July 1, 1998 to Aug.1, 1999- Project Engineer, Water, Air Quality, monitoring, analysis, EIA, Solid waste management.

- **Projects/Research Work:**

1. **Ph.D:** Studies on Adsorption of Phenol and Cadmium on Various Adsorbents in Fixed Bed Adsorber with Optimization of the Factors Affecting the Adsorption
2. **M.E:** Adsorption of Phenolic Compounds on different Adsorbents.
3. **B.E.:** Removal of Organic matter from distillery effluent by using bagasse flyash as low cost adsorbent.

Book Publications: 09

Sr. No.	Title	Publisher. year ofpublication	Author	ISBN
1	Solid Waste Treatments- Recycleand Reuse	Omni Scriptum Publishing Group, Beau Bassin	Dr. Sunil J Kulkarni	978-613-4-94230-0
2	An Insight into EnergyEfficient Practices and Technologies	Omni Scriptum Publishing Group, Beau Bassin	Dr. Sunil JKulkarni	978-613-4-94263-8
3	Research and Studies on Biological WasteTreatment Methods	Omni Scriptum Publishing Group, Beau Bassin	Dr. Sunil J Kulkarni	978-613-732945-0
4	Advanced Methods for Effluent Treatments	Omni Scriptum Publishing Group, Beau Bassin	Dr. Sunil J Kulkarni	978-613-33988-6.
5	Adsorption for Wastewater Treatment –Some Experimental Studies	Omni Scriptum Publishing Group, Beau Bassin	Dr. Sunil J Kulkarni	978-613-33988-6
6	Petroleum And Refining Sector: Towards Cost Effective And SustainablePractices	Literature Lights Publication 2019	Dr. Sunil J.Kulkarni	ISBN: 978-81-943979-0-8
7	Chemical Engineering- Towards Sustainability andIntensification	Pen2Print 2021	Dr Sunil JKulkarni	ISBN 978-93-92180-01-9
8	Wastewater Treatment by Adsorption - Chromium, Nitrates, Nitrites and Phenol	Eliva Press 2023	Dr Sunil J Kulkarni	ISBN 978-9994984480
9	Abstract Proceedings of National Conference on Advances in Materials and Processes for Advanced Applications	Techno science Academy	Dr Sunil J Kulkarni	ISBN 978-81-955673-7-9

Publications in Journals (International)-Scopus Indexed: 19

List of Publications (Scopus Indexed)

1. Karwatkar, P. A., Kulkarni, S. J., & Goswami, A. K. (2025). Bionanomaterials in Food Systems: Sources, Synthesis, Properties and Opportunities. *BioNanoScience*, *15*(1), 5.

2. Bodkhe, M., Chalke, T., Kulkarni, S., & Goswami, A. (2024). A review on sustainable applications of Nanobiosensors in various fields and future potential. *BioNanoScience*, *14*(2), 1940-1960.
3. Santosh, G. V., Santosh, C. M., Ramakant, C. P., & Jayant, K. S. (2023, December). Investigation on Factors Affecting Batch Drying. In *2023 6th International Conference on Advances in Science and Technology (ICAST)* (pp. 597-602). IEEE.
4. Husain, M. Z. G., Zikriya, W. K., Shailendra, K. N., Nalband, M. M., & Kulkarni, S. J. (2023, December). Removal of Organic Matter from Wastewater by Adsorption using Coconut Coir as Adsorbent. In *2023 6th International Conference on Advances in Science and Technology (ICAST)* (pp. 627-631). IEEE.
5. Kulkarni, S. J., Suryawanshi, M. A., Mane, V. B., & Kumbhar, G. (2023). Biohydrogen From Waste Feedstocks–Materials, Methods and Recent Developments. *BioNanoScience*, *13*(4), 1501-1516.
6. Teli, S., & Kulkarni, S. (2023). Stirred Tank Reactor with Dual Impeller Rushton Turbine for Application of Wastewater Treatment - Process Optimization and CFD Simulation. *Advances in Environmental Technology*, (), -. doi: 10.22104/aet.2023.6207.1710
7. Kulkarni, S.J. Feedstocks, Synthesis, and Characterization of Cellulosic Materials for Advanced Applications with Emphasis on Microcrystalline Cellulose (MCC). *BioNanoSci.* **13**, 784–794 (2023). https://doi.org/10.1007/s12668-023-01080-7
8. Zope, G., Goswami, A. & Kulkarni, S. Isolation and Characterization of Cellulose Nanocrystals Produced by Acid Hydrolysis from Banana Pseudostem. *BioNanoSci.* (2022). https://doi.org/10.1007/s12668-022-00960-8
9. Sunil Jayant Kulkarni, Enzymes as Biocatalysts: Review on Investigations on Synthesis, Mechanism, Kinetics, Applications and Potential, Letters in Applied NanoBioScience, Volume 11, Issue 1, (March30th) 2022 https://doi.org/10.33263/LIANBS111.30493064
10. G Zope, A K Goswami, S J Kulkarni, Factors affecting photocatalytic degradation of Reactive Green-19 with CdO-TiO2 nanocomposite Advanced Env. Tech 2022, Scopus indexed. 10.22104/AET.2021.5140.1395
11. Sunil Jayant Kulkarni, COVID-19: Socioeconomic, Environmental, Psychological Effects, and Prediction Models, Letters of Applied Nanobioscience, Volume 9, Issue 3, 2020, 1313 – 1319.
12. Sunil Kulkarni, Synthesis, Characterization and Performance of Low-Cost Unconventional AdsorbentsDerived from Waste Materials, Biointereface Res. In Applied Chemistry, Vol.10, No.6, pp7243- 7256.2020
13. Sunil J Kulkarni, Ajaygiri K. Goswami, Transesterification for biodiesel-a review, International Journalof Advanced Trends in Computer Science and Engineering, 8(1.6), 2019, 46-50
14. SJ Kulkarni. Chemical Engineering - an Insight into the Fundamentals and Interdisciplinary Approach,International Journal of Recent Technology and Engineering 8 (1), 1322-1326
15. Sunil J Kulkarni , Mercury Removal From Wastewater by Physico-Chemical, Biological and CombinedMethods: A Review, Pollution Research, 2019 Issue no. 38(3).) 740-745

16. Sunil J Kulkarni, Investigation on Isotherms, Kinetics and Break through Curve for Sorptive Removal of Chromium from Wastewater by Activated Sludge, Asian Journal of Chemistry. Volume 31 (2019) ***(SCOPUS).***
17. Sunil J. Kulkarni, Ajaygiri K. Goswami, Isotherm, Kinetics and Trickling Flow Studies for Removal of Chromium from Synthetic Effluent by using Mixed Fruit Peels (MFP), International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-6S, April 2019, 430-432
18. An Insight Into Selected Literature On Disasters, Hazards And Safety In Laboratories And Industries. International Journal of Scientific & Technology Research.2019, Vol.8, issue 9, 1395-1399.(**Scopus).**
19. Sunil J.Kulkarni, Ravi W.Tapre, Suhas V. Patil, Mukesh B. Sawarkar ,"Adsorption of Phenol from Wastewater in Fluidized Bed Using Coconut Shell Activated Carbon" Procedia Engineering. Elseveir publications, Vol.3, No.1, Feb.2013,231-236

Book Chapters: 28(scopus-26)

1. Chalke, T., Bodkhe, M., Kulkarni, S. J., & Goswami, A. K. (2025). Plant-Based Inorganic Quantum Dots: Synthesis, Characterisation, and Applications. In *Synthesizing and Characterizing Plant-Mediated Biocompatible Metal Nanoparticles* (pp. 307-336). IGI Global.
2. Kabara, V., Vaidya, S. S., Kulkarni, S. J., & Goswami, A. K. (2025). An Introductory View of Bioinformatics in Food and Nutritional Science. In *Effective Techniques for Bioinformatic Exploration* (pp. 237-262). IGI Global.
3. Dubey, S., Lohakar, S., Kulkarni, S. J., & Goswami, A. K. (2025). Silver Nanoparticles: Revolutionizing Food Packaging for Enhanced Quality and Safety. In *Exploring Nanomaterial Synthesis, Characterization, and Applications* (pp. 461-488). IGI Global.
4. Kulkarni, S. J. (2024). An Overview on Recent Developments in Biological and Hybrid Wastewater Treatment Technology in India. *Biological and Hybrid Wastewater Treatment Technology: Recent Developments in India*, 25-55.
5. Kulkarni, S. J. (2024). Multifaceted and Diverse Applications of Nanocomposites. In *Smart and Sustainable Applications of Nanocomposites* (pp. 67-101). IGI Global Scientific Publishing.
6. Bodkhe, M., Kulkarni, S. J., Chalke, T., & Goswami, A. K. (2024). Fruit Peel Waste Valorization Through Its Biosorptive Nature: Investigation for Heavy Metal Removal. In *Municipal Solid Waste Management and Recycling Technologies* (pp. 103-150). IGI Global.
7. Chalke, T., Bodkhe, M., Kulkarni, S. J., & Goswami, A. K. (2024). Application of Quantum Dots for Energy Conservation and Storage. In *Engineering Materials for Efficient Energy Storage and Conversion* (pp. 73-106). IGI Global.
8. Lohakar, S., Kulkarni, S. J., Dubey, S., & Goswami, A. K. (2024). Role of Algae in Sustainable Food Production. In *Achieving Food Security Through Sustainable Agriculture* (pp. 203-228). IGI Global.
9. Kulkarni, S. J. (2024). Biocatalysis in organic synthesis using microbial enzymes—Latest developments. In *Enzyme Biotechnology for Environmental Sustainability* (pp. 161-181).

Academic Press.

10. Kulkarni, S. J., & Patil, S. (2024). Environmental, Economic, and Social Sustainability and the Virtual World: Impact of Artificial Intelligence. In *Green Metaverse for Greener Economies* (pp. 109-125). CRC Press.
11. Kulkarni, S. J., & Talnikar, V. D. (2024). Disaster Management Activities in an Indian Engineering Institute: A Case Study of Gharda Institute of Technology. In *Challenges, Strategies, and Resiliency in Disaster and Risk Management* (pp. 183-204). IGI Global.
12. Chalke, T., Bodkhe, M., Kulkarni, S. J., & Goswami, A. K. (2024). Application of CFD in Healthcare or the Biomedical Field. In *Biomedical Research Developments for Improved Healthcare* (pp. 163-183). IGI Global.
13. Kulkarni, S. J. (2024). Strategic Plan for Research Activities in an Engineering Institute. In *Advancing Student Employability Through Higher Education* (pp. 220-233). IGI Global Scientific Publishing.
14. Kulkarni, S. J., Parkar, S. M., Mulukh, R. S., & Narhari, G. J. (2023). Optimization of Parameters and Modelling for Breakthrough Curve for Chromium Removal in Fixed Bed. In *Promoting Sustainable Management Through Technological Innovation* (pp. 216-249). IGI Global.
15. Kulkarni, S. J. (2023). Combinations of Biotechnology and Nanotechnology in Industrial Wastewater Treatment. In *Sustainable Science and Intelligent Technologies for Societal Development* (pp. 96-106). IGI Global.
16. Chaudhari, V. R., Goswami, A. K., & Kulkarni, S. J. (2023). Orange Peel-Facilitated Adsorption of Methylene Blue Dye. In *Sustainable Science and Intelligent Technologies for Societal Development* (pp. 331-341). IGI Global.
17. Sarode, S. S., Goswami, A., & Kulkarni, S. J. (2023). A Comprehensive Review on the Use of Walnut Husk Extract as a Natural Hair Dye. In B. Mishra (Ed.), *Intelligent Engineering Applications and Applied Sciences for Sustainability* (pp. 351-366). IGI Global. https://doi.org/10.4018/979-8-3693-0044-2.ch018
18. Kulkarni, S. J., Bhatikare, G., & Shinde, A. (2023). Rice Husk and Waste Paper as Feedstocks for Synthesis of Microcrystalline Cellulose. In B. Mishra (Ed.), *Intelligent Engineering Applications and Applied Sciences for Sustainability* (pp. 160-168). IGI Global. https://doi.org/10.4018/979-8-3693-0044-2.ch009 scopus
19. Kulkarni, S. J. (2023). Conversion of Cellulosic Raw Feed Stock Into Cellulose Nanocrystals (CNC): Methods, Characterization, and Novel Applications. In R. Goel & S. Baral (Eds.), *Handbook of Research on Sustainable Consumption and Production for Greener Economies* (pp. 283-300). IGI Global. https://doi.org/10.4018/978-1-6684-8969-7.ch017 scopus
20. Kulkarni, S. J. & Kalshekar, B. A. (2023). Preparation and Extraction of Alpha Cellulose and Synthesis of Microcrystalline Cellulose From Agro-Waste (Pineapple Leaves). In R. Goel & S. Baral (Eds.), *Handbook of Research on Sustainable Consumption and Production for Greener Economies* (pp. 384-397). IGI Global. https://doi.org/10.4018/978-1-6684-8969-7.ch022 scopus
21. Kulkarni, S. J. (2023). Politics and Ethical Aspects in Private Engineering Colleges in India:

A Cause of Concern. In G. Sart (Ed.), *Considerations on Education for Economic, Social, and Environmental Sustainability* (pp. 370-380). IGI Global. https://doi.org/10.4018/978-1-6684-8356-5.ch017 scopus

22. Kulkarni, S., Goswami, A., & Usmani, G. (2023). Comparative Studies on Neem and Jatropha Oil-Derived Biodiesels. In A. Rathoure & S. Khade (Eds.), *Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability* (pp. 258-273). IGI Global. https://doi.org/10.4018/978-1-6684-5269-1.ch015 scopus
23. Kulkarni, S., Goswami, A. K., & Usmani, G. A. (2023). Characterization and Comparison of Various Blends of Honge Oil Methyl Ester (Biodiesel) With Diesel Fuel. In A. Rathoure & S. Khade (Eds.), *Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability* (pp. 274-290). IGI Global. https://doi.org/10.4018/978-1-6684-5269-1.ch016 scopus
24. Kulkarni, S.J. (2022). Effect of COVID-19 Lockdown on Higher Education: Challenges Facing Engineering Education in India. In: Brunn, S.D., Gilbreath, D. (eds) COVID-19 and a World of Ad Hoc Geographies. Springer, Cham. https://doi.org/10.1007/978-3-030-94350-9_114 scopus
25. Book Chapter- Studies, Efforts and Investigations on Various Aspects of Solid Waste Management with Emphasis on Developing Countries in Sustainability Concept In Developing Countries. DOI: 10.5772/intechopen.91942
26. Book chapter -Heavy Metal Pollution: Sources, Effects, and Control Methods in book Hazardous Waste Management and Health Risks, Gabriella Marfe & Carla Di Stefano (Eds.) 2020 Bentham Science Publishers 2020, 96-111.
27. An Insight Into Research and Investigations of Gray Mold Focused on Botrytis cinerea, in book Driving Factors for Venture Creation and Success in Agricultural Entrepreneurship IGI GlobalDOI: 10.4018/978-1-6684-2349-3.ch016 scopus
28. SJ Kulkarni, AK Goswami, Studies and Investigations on Various Aspects of Aerobic and Anaerobic Treatments for Sewage and Industrial Effluent, New Innovations in Chemistry and Biochemistry Vol.5, 1-10 https://doi.org/10.9734/bpi/nicb/v5/5353F

List of paper presented in conferences (International):26, National:2

Sr. No.	Date,Year	Paper Name	Venue	Authors
1	02-03 December 2022	, "Recycling of Rubber Scrap Tyres and Its Processes of the Utilization," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 632-636, doi: 10.1109/ICAST55766.2022.10039659.	. K J Somaiya College of Engineering, Mumbai	P. Chavhan, Z. Madre, V. Gaikwad and S. J. Kulkarni

2	7 May 2021	An Insight Into Treatment, Reuse, Recycle and Disposal of Biodegradable and Non-biodegradable Solid Waste (May 7, 2021). Proceedings of the 4th International Conference on Advances in Science & Technology (ICAST2021), Available at SSRN: https://ssrn.com/abstract=3867475 or http://dx.doi.org/10.2139/ssrn.3867475	Online conference. K J Somaiya College of Engineering, Mumbai	Parkar, Saima and Mulukh, Rutuja and Narhari, Gautami and Kulkarni, Sunil and Kulkarni, Sunil,
3	January 30th 2021	Various Intensification methods for Adsorption-a review on studies and investigation. Int. conf. Advanced Resea. Innovation.). https://ijari.org/assets/papers/9/1/IJARI-CE-21-03-101.pdf	Online, Dr. Abdul Kalam Technical University, Lucknow	Rushikesh Vijay Kulkarni, Sunny Vasant Bait, Bhushan Somnath Benke, SJ Kulkarni
4	January 30th 2021	Synthesis of microcrystalline cellulose from raw feed stock – a Review	Online, Dr. Abdul Kalam Technical University, Lucknow	Ajinkya Bhimrao Bhakare, Sandesh Sanjay Bhalekar, Vinay Rajaram Salvi, SJ Kulkarni
5	18th January 2020	International Conference on Recycling and Waste Management (ICRWM-20), Hyderabad, India	Hyderabad, India	Sunil Jayant Kulkarni, A K Goswami
6	15, 16 February 2020	Selection, Execution, Evaluation and Monitoring ofStudent Project at Undergraduate Level in Chemical Engineering Int.Conf. on Science, Tech and Management	Guru Govind Singh Polytechnic, Nashik	Sunil Jayant Kulkarni, A K Goswami
7	13 February 2020	An Insight into Investigations on Intensification of AdsorbentBeds. Int Conf on Physical, chemical and biological sciences	RSTM Nagpur University	Sunil Jayant Kulkarni, A K Goswami
8	8-9 April 2019	A Review On Studies And Investigations On Process Intensification By Reactive Distillation	2nd International Conference on Advances in Science & Technology (ICAST-2019) K. J. Somaiya Institute of Engineering &Information Technology, University of Mumbai,Maharashtra, India	Aakash Deshmukh, Kajal Shimpi, Jyoti Koli, Sunil Kulkarni
9	March 17, 2019	Isotherm, kinetics and trickling flow studies for removal of chromiumfromsynthetic effluent by usingmixed fruit peels (MFP)	International Conference On Advent Trends in Engineering Science & Management (ICATESM-2019)	Kulkarni, Sunil and Goswami, Ajaygiri

10	February 26 - 28, 2019	Effect of Excess Fertilizers and Nutrients: A Review on Impact on Plants andHuman Population	SUSCOM-2019 February 26 - 28, 2019 | Amity University Rajasthan, Jaipur, India	Kulkarni, Sunil and Goswami, Ajaygiri
11	17th Feb 2019,	An Insight to Soybean Denaturing Process	Asian Conference on Recent Advances in Science, Engineering and Technology (ACRASET)Pune	Sanket. S. Uppalwar, Vishakha. R. Khandke, Shubham Mhatre, Dr. Sunil Kulkarni,
12	19 November 2017	Continuous Activated Sludge Treatment For Nickel Removal From Effluent: Investigation On Affecting Factors	12 th conf. on Recent Trends on Enng., Science and Management, Inst of Engg and Tell. O.U.Campus,Hayderabad Nov.2017	Sonali R. Dhokpande, Dr. Sunil J. Kulkarni, Dr.Jayant P. Kaware
13	29-30 march 2016	Vermicomposting for Solid Waste Treatment	International Conference on global technology initiatives, Rizvi College of Engg., Mumbai	M.T.Sose, S.J. Kulkarni, Dr.T.W.Charpe, Dr.R.W.Gaikwad
14	29 March 2013	Studies on Potential of Activated Carbon for Removal of Various Pollutants From Wastewater	International Conference on global technology initiatives, Rizvi College of Engg., Mumbai	S.j.Kulkarni,S.R.Dhokpande, R.W.Tapre, N.L. Shinde
15	1 march 2013	Batch and Column Studies For Organic Matter Removal From Wastewater By Adsorption	International Conference, Biopack 2013, SIES, Nerul, 1 march 2013	S.J.Kulkarni, S.M. Deshmukh, P.M. Ingole, S.R.Dhokpande
16	6-8 Dec. 2012	Adsorption of Phenol from Wastewater in Fluidized Bed Using Coconut Shell Activated Carbon	Institute of Technology, Nirma University,(NUICONE2012) 6-8 Dec. 2012	Sunil Kulkarni, R. W. Tapre, Suhas V. Patil, MukeshSawarkar
17	June30, 2012	Domestic Wastewater Treatment For Colour And Organic Matter Removal By Adsorption	Sardar Patel COE, Andheri, Mumbai,SPICON 2012	Sunil Kulkarni,Yashawant P. Bhalerao,Suhas V. Patil Shubhangi S. Kadu
18	June30, 2012	Heat Integration Study Of A Phosphorus Trichloride (Pcl3) Plant	Sardar Patel COE, Andheri, Mumbai,SPICON 2012	Sunil Kulkarni,Yashawant P. Bhalerao, SuhasV.Patil
19	8-10., December 2011	Experimental Studiesof Bagasse Flyash Adsorptionon Chemical Oxygen Demand and Dissolved Oxygen of the Distillery Waste	Nirma University,(NUICONE2011). Ahmedabad	Sunil J.Kulkarni, Ravi W.Tapre, Suhas V. Patilc, Mukesh B. Sawarkar
20	8-10., December 2011	Studies on Adsorption for Phenol Removal by using Activated Carbon in Batch and Fluidized Bed Adsorption	Nirma University,(NUICONE2011). Ahmedabad	Sunil J. Kulkarni, SuhasV.Patil,Ravi W. Tapre,and Shubhangi S. Kadu
21	8-10., December 2011	Kinetics of Esterification ofP-tert.butylcyclohexanol with Acetic acid over Ion Exchange Resin Catalyst	Nirma University,(NUICONE2011). Ahmedabad	Shubhangi S. Kadu, Sunil J. Kulkarni and Ravi W. Tapre

22	24-26 March 2011	Mathematical modelling of fluidized bed Adsorption column for Phenol removal	Kalasalingam Univ.KrishnankoilTamiln adu(INCOTTEE 2011)	R.W.Tapre, S.V. Patil , S. J.Kulkarni, R.V.Nagotkar,Y.P.Bhalerao
23	24-26 March 2011.	Application of pinch Technology to grass root design for Heat Exchanger Network	Kalasalingam Univ.Krishnankoil Tamilnadu(INCOTTEE 2011)	Y.P.Bhalerao, P.V.VijayBabu, S.V. Patil, R.V.Nagotkar ,S.J.Kulkarni
24	24-26 March 2011.	Removal of phenol from waste water using fluidized bed adsorption column containing activated Carbon	KalasalingamUniv.Krish nankoilTamilnadu (INCOTTEE 2011)	Ravi W.Tapre, Sunil J.Kulkarni,SuhasV.Patil,S.C. Nawle
25	24-26 March 2011.	Comparison of Batch adsorption process for Phenol removal using Various Adsorbents	Kalasalingam Univ.Krishnankoil Tamilnadu (INCOTTEE 2011)	Sunil J.Kulkarni, Suhas V. Patil , Ravi W.Tapre,Y.P.Bhalerao
26	24-26 March 2011.	Energy retrofit study of a DiEthyl Thiophosphoryl Chloride (DETC)	Kalasalingam Univ. Krishnankoil Tamilnadu(INCOTTEE 2011)	Y.P.Bhalerao, P.V.VijayBabu, S.V. Patil, S.J.Kulkarni ,R.W.Tapre
List of paper presented in conferences (National)				
1	AUG 2010	Heat Transfer and PressureDrop Studies throughCircular tube for Laminar Swirl Flow Fitted withScrewTape insert	Datta Meghe College of Engg., Airoli Navi Mumbai,(NCRTME 2010), August 2010.	S.V.Patil, P. Vijay babu, S.J. Kulkarni, R.W. Tapre
2	AUG 2010	Heat Transfer and PressureDrop Studies of Turbulent Flow in a Tube Fitted with Screw Tape insert	Datta Meghe College of Engg., Airoli Navi Mumbai,(NCRTME 2010), August 2010.	S.V.Patil, P. Vijay babu, S.J. Kulkarni, R.W. Tapre

List of Conference, Workshops and Training Programs Organized

1. **Convener** of National conference on advanced materials and processes for sustainable applications, at Gharda Institute, on March 23-25. 2023
2. Convener of one week ISTE Approved Online Faculty Development Program (FDP) on Role of Nanotechnology in Sustainable Development 18-22 October 2024 at GIT Lavel
3. **Coordinator** of A three days FDP on "Chemical Engineering- Towards Sustainability and Process Intensification" 15th June to 17th June, 2020 (CETSPI-2020) Organised by Department ofChemical Engineering, Gharda Foundation's Gharda Institute of Technology, Lavel, Tal. Khed, Dist Ratnagiri
4. **Convener** of One days' Online seminar, "Opportunities for Chemical Engineering in Industries and Research (OCEIR2020)" 04th July 2020 Organized by Department of Chemical Engineering,Gharda Foundation's Gharda Institute of Technology, Lavel, Tal. Khed, Dist Ratnagiri
5. **Convener** of Orientation meeting for two subjects, Energy system design and Project Engineering Management held on 11 January 2020 at GIT, Lavel.

- **List of Workshops and Training Programs attended**

1. Attended two weeks workshop on "Mastering MATLAB", at Datta Meghe College of Engg., Airoli NaviMumbai in 1-11 January 2008
2. Attended two weeks training program on "Accreditation and ISO certification of TechnicalInstitute" at Datta Meghe College of Engg., AiroliNavi Mumbai in 13 July- 24 july 2009
3. Attended one-week national workshop on "Advances in Chemical Engineering- Recent Trends" at Dr. Babasaheb Ambedkar Technological University, Lonere, 26-30 March 2012.
4. Attended one-week workshop on "Challenges for chemical engineering faculty to meet the needs ofthe industries" (CCEFI-13) at Datta Meghe College of Engineering, Airoli in 6-10 May 2013
5. Attended two-week workshop on "Low Cost Automation in Industries" from 21 April 2014 to 3 may2014 at College of Engg. and Tech. Akola
6. "Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19Situation. Terna Engineering College, May 25 – 29, 2020
7. "Engineering Education & the Industry: A Post COVID-19 Perspective," Rajiv Ghandhi Inst of Tech.Mumbai. June 1 – 5, 2020
8. "Emerging research areas in Engg.". IE and SRM Institute, June 5- 9, 2020
9. "Development and Impact of Recent Technologies & Innovations in Chemical Engineering"MGMCET. Navi Mumbai. June 21-25, 2020
10. One-week faculty development program on "Recent trends in heat exchangers (RTHX 2020) " in a distance mode from13/07/2020 to 18/07/2020, organized by Department of Mechanical Engineering, Walchand College of Engineering, Sangli.
11. Two week Faculty Development Program on Nano Science and Technology (Energy, Environment and Healthcare) from 29.06.2020 to 07.07.2020
12. AICTE-ISTE approved Orientation/Refresher Programme on "Computer Aided Software for Process Intensification" held during 22.2.2021 to 27.2.2021 organized by Gharda Institute of Technology, Ratnagiri, Maharashtra.
13. AICTE-ISTE approved Orientation/Refresher Programme on "Computer Aided Software for Process Intensification" held during 05.04.2021 to 10.04.2021 organized by Gharda Institute of Technology, Ratnagiri, Maharashtra.
14. AICTE-ISTE approved Orientation/Refresher Programme on "Computer Aided Software for Process Intensification" held during 24.05.2021 to 29.05.2021 organized by Gharda Institute of Technology, Ratnagiri, Maharashtra.
15. NPTEL- 8 week-fdp course on Accreditation and Outcome Based Learning Aug- Oct 2023
16. Nanotechnology Role of nanotech in sustainable development, 1 week 18.10.2024

22.10.2024 GIT Lavel Completed

17. Swayam online course “Introduction to Intellectual Property” with consolidated score of 70.8 % In the Proctored Examination held during May 20241 12 week. Jan to June 2024
18. successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Sustainable Practices in Energy and Environment Sector at D Y Patil International University from 16/12/2024 to 21/12/2024.
19. 3-day Face-to-Face FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) at Gharda Foundation's Gharda Institute of Technology, Ratnagiri from 1st July to 3rd July 2024.
20. Five Days Faculty Development Program on "Recent Trends in Exergy and Sustainability" organized by IIChE Students' Chapter, School of Chemical Engineering, MIT Academy of Engineering, Alandi (D), Pune, Maharashtra, India

Other Academic Activities

- **Guest Lectures**

1. Delivered lecture via video conferencing on Process Calculation at Gharda Institute of Technology, Lavel, Chiplun, 19, oct. 2012.
2. Delivered lecture on Material Science and Technology at Gharda Institute of Technology, Lavel, Chiplun, 2011
3. Delivered lecture on Advance Distillation Techniques at Government Polytechnic, Pen, 2013
4. Delivered lecture on Process Engineering at Bharati Vidyapeeth College of Engg. on 8 and 10 oct.2015
5. Delivered lecture on “Process Intensification”at Tatyasagheb Kore institute of Engineering and Technology, Warananagar on 20 Jan 2018
6. Delivered lecture on Project Management-Ethical Aspects on 20 feb.2019 at TKIET Warananagar
7. Delivered on Mass Transfer for GATE Examination at University Institute of Chemical Technology, Jalgaon on 3 Nov.2017.
8. Delivered guest lecture at BVCOE Kharghar.20 Jan.2020 on Process Intensification and sustainability.
9. Delivered guest lecture on "Use of Adsorption Techniques in Wastewater Treatment" on 23rd Jan 2020 for the subject Industrial Waste for TE students of Civil Department of GIT.
10. Guest lecture on paper writing, sustainable development and process Intensification at UNICT NMU Jalgaon on 9.12.2024
11. Talk in the one-day seminar on WATER by IIChE Lote and Gharda Institute of Technology, April 2024.

- **Other activities**

1. Worked as scrutiny committee member for a State Level Paper Presentation competition held atGovernment Polytechnic, Pen in 2015.
2. Examiner for M.Tech (Chemical) dissertation at University Department of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra, 2014 and 2017.
3. Examiner for M.Tech (Chemical) dissertation at Shivaji University Kolhapur, Maharashtra, Jan. 2018
4. ME Approved teacher in Mumbai University

- **Professional Membership**: ISTE –LM 55782, International Association of Engineers(IAENG) (Member No: 183777)
- **Research Interests:**

Selective Adsorption of Organic and Inorganic matter on new Adsorbents. Heat Transfer Augmentation

Other activities & responsibilities: **Reviewed papers for**

- 1. Arabian journal of science and engineering(springer)
- 2. Egyptian Journal of Aquatic Research(Elseveir)
- 3. Journal of King Saud University -(Elseveir)
- 4. Sustainable Water Resources Management(Springer nature)
- 5. Reviewer/editorial board member of 25 international journals/publications. Reviewed more than20 international papers. Also organizing committee member of 2 International conferences.
- Nominated by VC Mumbai university as board of studies member in chemical engineering in September 2019 till Sept 2022

Place:
Date

(Dr. Sunil Jayant Kulkarni)