

Curriculum Vitae

Name: Dr. Vidya Shetty K

Gender: Female

Affiliation: Department of Chemical Engineering, National Institute of Technology Karnataka, Surathkal, , Mangalore -575025



Designation: Professor (Higher Administrative Grade).

Former Dean (Academics), National Institute of Technology Karnataka, Surathkal

Former Associate Dean (PG& Res), National Institute of Technology Karnataka, Surathkal

Former HOD, Department of Chemical Engineering, NITK Surathkal

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Google scholar link: <https://scholar.google.co.in/citations?user=AGCoCy4AAAAJ&hl=en>

Education:

Qualification	Year	University/Institute
B.E (Chemical Engg.)	1990	M.S.Ramaiah Institute of Technology, Bangalore
M.Tech((Industrial Pollution Control)	1997	KREC (now NITK) <u>Surathkal</u> , Mangalore University, India
Ph.D.	2008	NITK Surathkal, India

Academic Experience : >30 years

Institute		Designation	From	To
National Institute of Technology Karnataka, Surathkal (NITK)	Dept. of Chemical Engg.	Professor (Higher Administrative Grade)	21-11-2024	Till date
NITK Surathkal	Dept. of Chemical Engg.	Professor	16-5-2018	20-11-2024
NITK Surathkal	Dept. of Chemical Engg.	Associate Professor	29-12-2011	15-5-2018
NITK Surathkal	Dept. of Chemical Engg.	Assistant Professor	29-12-2008	28-12-2011
NITK Surathkal	Dept. of Chemical Engg.	Senior Lecturer	20-10-2005	28-12-2008

NITK Surathkal	Dept. of Chemical Engg.	Lecturer	20-10-2000	20-10-2005
Manipal Institute of Technology, Manipal	Dept. of Chemical Engg.	Lecturer	1-3-1999	19-10-2000

Research Experience Abroad :

- Visiting Researcher at Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Canada for Research collaboration with Prof. Vinay Prasad during June 15 to July 4 2014 (three weeks.)
- Visiting Researcher at Department of Environmental Engineering, Kyung Hee University, Suwon, South Korea for 2.5 months during May-July 2011, for collaborative research with Prof. Chang Kyoo Yoo.
- Visiting Researcher at Center for Environmental Biotechnology, The Biodesign Institute, Arizona State University, US (1 week) during June 2008 for research interactions with Prof. Bruce Rittmann on Environmental Biotechnology.
- Visiting Researcher at Department of Chemical and Biomolecular Engineering, Rice University, Texas, US (3 weeks) during June-July 2008 for research interaction with Prof. Mike Wong in the research area on nanocatalysis

Various Positions held:

- **Dean (Academics)** at NITK from October 1, 2021 to November 6, 2023
- **Associate Dean (PG&Research)** at NITK October 2018-September 30, 2021
- **Head of the Department of Chemical Engineering**, NITK from 1st September 2012 to 31st August 2015
- **Part-time Chief Vigilance Officer 15 Jan 2025 to 14 Jul 2025**
- **PIC Learning Resources since 3 September 2025 to date**
- **Chairperson, Internal Complaint Committee** at NITK 15th July 2018 to 14th July 2021

Other key administrative responsibilities held

- Member of Local Organizing Committee , CSAB-2024 with NITK as the coordinating Institute
- National level Coordinator for Central seat allocation and admissions through DASA-2020 (Direct admissions for Students abroad)

- Member of Institute Finance Advisory Committee for NITK since December 2023
- Member of Curriculum Revision Committee at NITK , 2023-24.
- Verifying Centre i/c and PI i/c CSAB 2023, CCMT 2023, CCMN2023
- Verifying Centre i/c and PI i/c CSAB 2022, CCMT 2022, CCMN 2022
- Participating Institute i/c for M Tech and MSc. admissions at NITK through CCMT-2019,CCMT 2022,CCMT 2023,CCMN2022,CCMN 2023 and CSAB 2022,CSAB 2023
- PI i/c DASA-2023, 2022,DASA-2021
- Verifying Centre i/c and PI i/c CSAB 2021, CCMT -2019
- Verifying Centre Deputy i/c CCMT 2021,CSAB -2021
- Participating Institute i/c for M Tech admissions at NITK through CCMT-2019
- Participating Institute Deputy i/c for B.Tech. admissions at NITK through JoSAA/CSAB -2019
- Participating Institute Deputy i/c for M.Tech. admissions at NITK through CCMT-2020
- Participating Institute i/c for B.Tech. admissions at NITK through JoSAA/CSAB -2020

Area of Research:

Environmental Nanotechnology, Environmental biotechnology, Biosynthesis of Nanoparticles/nanocomposites, Nano-photocatalysis, Wastewater treatment, Water Disinfection, Bioleaching

Major Honours and awards (Last five years):

- **Prof. Satish Dhawan Young Engineer State Award for the Year 2017 for outstanding achievements in the field of Engineering Sciences:** Instituted by **Govt of Karnataka** :Award received on August 6 **2018** from Honourable Chief Minister of Karnataka at Indian Institute of Science in the presence of Prof .C.N.R Rao and IISc Director Prof. Anurag Kumar
- **Institution of Engineers Mangalore Local Centre Young Engineer Award:** Presented at the Engineers Day celebration on 15th September 2018 organized by Institute of Engineers, Mangalore Local Centre, Kodagu , Dakshina Kannada , Udupi Engineers' Association and Institution of Engineers ,Mangalore branch
- **'Distinguished Alumnus'** by M S Ramaiah Institute of Technology, Bangalore. Received the Honour during the Alumni Meet Milana **-2018** held on 18th August 2018 at MSRIT
- **IChE NRC Award** for Best Paper published in the Journal-Indian Chemical Engineer in 2023 awarded to Dr. Vidya Shetty K, Dr. Minimol M and Dr. M.B Saidutta for the paper entitled Bioleaching of zinc from e-waste by *A. aquatilis* in fluidised bed bioreactor. The award was presented during the Indian Chemical Engineering Congress (CHEMCON-2024) of IChE held at NIT Jalandhar, Punjab, during December 27-30, 2024.

- Prof. Vidya Shetty K and her student Ms. Deeksha Mathew received “Indian Institute of Chemical Engineers -**SISIR Kumar Mitra Memorial Award for the Second Best Technical Paper** published in Indian Chemical Engineer during the year 2022” during the Inaugural session of IICChE-CHEMCON 2023 on 27th December **2023**
- Prof. Vidya Shetty K and Arpitha C received a Best Paper Award for a paper titled :Hydrogen Production Using Green Synthesised Copper Oxide Modified Titanium Dioxide Photocatalyst presented in a Technical Session at Indian Institute of Chemical Engineers-CHEMCON-2025 held at Annamalai University, Tamil Nadu during 27-20,2025
- Prof. Vidya Shetty K and her team of students (Chetan M, Shivani R.J, Preethi, Deekshitha, Anjali. S Pawar, Thanush Shetty) of Chemical Engineering Department is awarded the **Best Paper award** for the paper "Bio-chemo sequential synthesis of silver oxide nanoparticles embedded in TiO₂ shell (BioAg₂O@TiO₂): A visible light active photocatalyst for dye degradation" presented at IICChE-CHEMCON-2023 held at Heritage Institute of Technology, Kolkata during 27-30 December **2023**.
- **Best paper award** for a paper titled “Visible light irradiated photocatalytic reduction of CO₂ using novel PANI/CuO nanocomposite in aqueous medium” authored by Ms. Deeksha Mathew and Prof. Vidya Shetty K in International Conference on Recent Technologies and Advanced Materials for Green Energy and Sustainable Environment (RTAMGESE-Online) organized by Department of Chemical Engineering, National Institute of Technology Tiruchirappalli held during. March 12-13, 2021.
- Best Oral Presentation Award for the Paper “Bioleaching of Zn from E-waste” authored by Minimol M, Vidya Shetty K, Saidutta. M.B , , in Indian Chemical Engineering Congress & 74th Annual Session of Indian Institute of Chemical Engineers (CHEMCON-2021). Held at CSIR Institute of minerals and Materials Technology, Bhubaneswar. India. During 26-30 Dec 2021.
- Best paper award of the symposium “Material and Composites” for a paper titled “Microbial induced corrosion behaviour of multilayer nanocomposite coatings for the marine applications” authored by Preethi, Shashi Bhushan Arya, Vidya Shetty K, . at CORCON 2019 held at Jaipur during 23-26 September 2019.
- Received Best Paper Award at International conference on Nano science and engineering applications (ICONSEA-2018) held at Center for Nanoscience and Technology, Jawaharlal Nehru Technological University, Hyderabad, Telangana, India. October 4th to 6th 2018.
- Received Best Paper Award at National Conference on Environmental Conservation -2006 held at BITS Pilani

Number of Research Publications

Publication in International Journals: 72

Publication in Conference proceedings: 69

Book Chapter Publications: 17

Books : 02

Student Mentorship:

Post Doctoral Research Fellow: Completed-01 , Ongoing:01 (ANRF-National Post Doctoral Fellow)

Ph.D guidance : Awarded: 12, Ongoing : 5

M Tech (Research) guidance: Sole guidance :4 Joint guidance:1

M.Tech candidates guided : i) Sole guidance: **89 completed** (3 ongoing);
ii) Joint guidance : 9

List of funded projects

- CSIR ASPIRE Project Microbial-mediated synthesis of metal-based nanocomposites from electronic waste for water disinfection and development of a flow-through water disinfection system with the immobilized nanocomposites, funded by CSIR. For 3 years 2024-26 for approximately Rs.26.29 lakhs-Ongoing
- DST Joint Research Grant under Water Technology Initiative (WTI) sanctioned to **Prof. Vidya Shetty K for a collaborative Research Project with IIT Bombay** for a project titled “ Integrated Photocatalytic and Membrane Bioreactor Process for Effective Removal of Emerging Contaminants and Disinfection” with total funding of 72.32 lakhs (for NITK (Rs.22.8 lakhs); three years duration from 2021-24. -completed
- DST-SERB Project “Batch and Continuous Photocatalytic Degradation of Azo dyes using Ag core-TiO₂ Shell Structured Nanoparticles in Free and Immobilized form” Cost: 20.39 lakhs 2011-2013 (Two years)-completed
- MHRD-NMEICT Project “Development of Virtual lab-Process Control Reaction Engg. & Unit Operations lab” Rs.16.6 Lakhs 2010-2014. Developed a virtual lab which is available online completed
- Coordinator and member of the Project implementation committee for DST- FIST-2014 funded by DST , GoI for Departmental infrastructure development for Rs. 220 lakhs completed

CONSULTANCY PROJECTS

Lead member of a consultancy team for Third-party audit of City Action Plan for Davangere City under National Clean Air Programme under Ministry of Environment & Forests , GoI sanctioned by Karnataka State Pollution Control Board ongoing from 2 May 2025 . Sanctioned Consultancy Amount: Rs.3.0 lakhs
Consultancy Team members: Prof.Vidya Shetty K, Dr. Jagannathan T.Kalathi,Dr. Salavadhi Jitendra Pal

Patent granted /filed and Published: Patent granted :01; Patent filed and published: 02

Patent Granted:

1. Patent No.553703 “Bacterial-Based Synthesis of Core-Shell AgO@TiO₂ Nanoparticles for Photocatalytic Water Disinfection and Dye Degradation” (Application Number: 201741044068 dated 08/12/2017) granted on 30/10/2024 . Inventors: Vidya Shetty K, Afshan Kilpady, Deekshitha
2. Patent Number :572001 “Sequential Batch Bioleaching Process Employing *Alcaligenes aquatilis* And *Chromobacterium Violaceum*” (Application Number: 202441016635 dtd. 07-03-2024) granted on 14/10/2025 Inventors : Minimol M, Vidya Shetty K, M. B. Saidutta
3. **Patent No. 594041** “TiO₂ Modified with Copper Oxide Nanocomposite for Photocatalytic Degradation of ciprofloxacin and Method Thereof.” (Application Number:202541055044 dtd. date:7-6-2025.).Granted on 01/07/2026 . Inventor(s): Vidya Shetty K, Preethi

Visits abroad for conferences

- Attended and presented a research paper at the 3rd IWA Leading Edge Conference on Water and Wastewater Treatment Technologies (LET 2005) held at Sapporo, Japan, during 6th -8th June 2005, organised by the International Water Association, London.
- Attended and presented a research paper at Nanoworld Conference held during April 03-05, 2017, in Boston, USA
- Attended and presented a research paper at Circular Economy Asia Pacific Conference on Nano-Micromaterials for Circular Economy and Sustainability held at National University of Singapore during 29 Aug 2019 - 01 Sep 2019 organized by the University of Central Florida and the National University of Singapore
- Attended and presented a research paper at 2nd International Conference WARMS-2024: WATER RESOURCES MANAGEMENT AND SUSTAINABILITY: SOLUTIONS FOR ARID REGIONS organized by United Arab Emirates University, at Dubai during 26-28 February 2024.

List of Publications

Books:

1. Recent Advances in Chemical Engineering-Select Proceedings of ICACE-2015 (2016). Editors: I. Regupathi, **Vidya Shetty K**, T. Murugesan, Springer, Singapore
2. Concept of Zero Liquid Discharge: Innovations and Advances for Sustainable Wastewater Management (2023) .Editors: Chaudhery Mustansar Hussain, **Vidya Shetty Kodialbail** .Elsevier ISBN: 978-0-323-91745-2. eBook ISBN: 9780323972567.

Journal Publications

1. Shetty, Preethi, and Vidya Shetty Kodialbail (2026) Immobilization of agrowastes-derived Cu_xO/TiO₂ nanocomposite as PES-photocatalytic beads for degradation of ciprofloxacin in solar light-driven batch stirred and airlift fluidized bed reactor." *Catalysis Today* : 115904.<https://doi.org/10.1016/j.cattod.2026.115904>
2. Sophia, S., & Shetty K, V. (2026). Kinetic and Mechanistic Insights into the Catalytic Reduction of 4-Nitrophenol, a Priority Water Pollutant over Cu_xO/Cu Multi-Metallic Nanocomposite Derived from Waste Printed Circuit Boards. *Industrial & Engineering Chemistry Research*.Ind. Eng. Chem. Res. (2026) 65 (26): 13601–13616. <https://doi.org/10.1021/acs.iecr.6c00838>

3. Shetty, P., & Shetty Kodialbail, V. (2026). Solar photocatalysis using Ag@ TiO₂ core-shell nanocomposite for the degradation of ciprofloxacin, an emerging water pollutant: a promising approach towards environmental sustainability. *Environmental Sustainability*, 9(1), 245-261. <https://doi.org/10.1007/s42398-026-00419-6>
4. Preethi Shetty and Vidya Shetty Kodialbail (2025), Fabrication of Cu₂O/TiO₂ hybrid nanocomposite by the synergetic effect of mixed phytoextract of agro-waste materials for enhanced visible-light-induced photocatalytic activity in degradation of ciprofloxacin, *Journal of Alloys and Compounds*, 1038,182605, <https://doi.org/10.1016/j.jallcom.2025.182605>
5. Pai, Shraddha, and Vidya Shetty. "Scaling up green synthesis of silver nanoparticles and their immobilization for water disinfection in a "Point of Use" fixed bed unit." *Journal of Water Process Engineering* 79 (2025): 108977.
6. Sophia, S., & **Shetty, K.V.** (2024). Extracellular synthesis of heteroatom doped copper oxide nanoparticles from electronic waste–Transforming waste to resource for the remediation of nitrophenol contaminated water. *Journal of Environmental Chemical Engineering*, 12(3), 112966. <https://doi.org/10.1016/j.jece.2024.112966>
7. Amruta S. Shet, **Vidya Shetty K** (2024), Experimental investigation, modelling, and order of magnitude analysis of oxygen mass transfer in pulsed plate column with α -Fe₂O₃ nanofluid. *Canadian Journal of Chemical Engineering*. <https://doi.org/10.1002/cjce.25207>.
8. Madhavan, M., **Shetty Kodialbail, V.** & Saidutta, M.B (2024). Performance of Fluidized-Bed Bioreactor in Copper Bioleaching from Printed Circuit Boards using *Alcaligenes aquatilis*. *Waste Biomass Valor* 15, 1213–1224 . <https://doi.org/10.1007/s12649-023-02202-8>.
9. Agarwalla S, **Shetty Kodialbail V** (2023). Extracellular biosynthesis of CuO-TiO₂ nanocomposites using *Alcaligenes aquatilis* for the photodegradation of reactive and azo dyes under visible light irradiation. *Environ Sci Pollut Res Int*. doi: 10.1007/s11356-023-28489-7. Epub ahead of print. PMID: 37458884.
10. M. Minimol, K. **Vidya Shetty** & M. B. Saidutta (2023). Bioleaching of zinc from e-waste by *A. aquatilis* in fluidised bed bioreactor, *Indian Chemical Engineer*, DOI: [10.1080/00194506.2023.2196558](https://doi.org/10.1080/00194506.2023.2196558)
11. Shetty, P., Arya, S.B. & **Kodialbail, V.S.** (2023) Biocorrosion Behaviour of Epoxy-Based Multilayer Nanocomposite Coatings. *J Bio Tribo Corros* 9, 45. <https://doi.org/10.1007/s40735-023-00763-8>
12. RG Mavinkattimath, **Shetty K.V.**, G Srinikethan (2023), Continuous fixed-bed adsorption of reactive azo dye on activated red mud for wastewater treatment-Evaluation of column dynamics and design parameters, *Environ. Sci. and Poll. Res.*, doi.org/10.1007/s11356-023-26210-2.
13. Shankramma Kalikeri, **Vidya Shetty Kodialbail** (2023) Visible light active Bismuth ferrite embedded TiO₂ nanocomposite structures for dye mineralization by photocatalysis -A strategy to harness solar energy for remediation of water contaminated with mixture of dyes. *Surfaces and Interfaces* 36, 102492. <https://doi.org/10.1016/j.surfin.2022.102492>.
14. Deeksha Matthew, **Vidya Shetty K** (2022) Visible light irradiated photocatalytic reduction of CO₂ to hydrocarbons using hybrid polyaniline/ CuO nanocomposite in aqueous system. *Indian Chemical Engineer*, 1-11. DOI: 10.1080/00194506.2022.2124198
15. Kulkarni, R.M., **Shetty, K.V.** & Srinikethan, G. (2022) Biosorption study on Ni(II) and Cd(II) removal in a packed bed column using brewery sludge pellets. *Biomass Conversion and Biorefinery*, 1-12. <https://doi.org/10.1007/s13399-022-03623-6>.

16. Prabhu Teja, K., **Shetty Kodialbail, V** (2022) Visible Light Mediated Photocatalytic Reduction of CO₂ to Non-fossil Fuel and Valuable Products by Polyaniline-TiO₂ Nanocomposites. *Arabian Journal of Science and Engineering*. Arabian Journal for Science and Engineering 47 (5), 6591-6603 <https://doi.org/10.1007/s13369-021-06450-5>.
17. Deekshitha, **Vidya Shetty K** (2021) Solar light active biogenic titanium dioxide embedded silver oxide (AgO/Ag₂O@TiO₂) nanocomposite structures for dye degradation by photocatalysis. *Materials Science in Semiconductor Processing*. 132, 105923. <https://doi.org/10.1016/j.mssp.2021.105923>.
18. Dekshitha Kulal and **Vidya Shetty Kodialbail** (2021) Visible light mediated photocatalytic dye degradation using Ag₂O/AgO-TiO₂ nanocomposite synthesized by extracellular bacterial mediated synthesis - An eco-friendly approach for pollution abatement, *Journal of Environmental Chemical Engineering* 9 (4), 105389 DOI: <https://doi.org/10.1016/j.jece.2021.105389>.
19. Dhanashree J Gadgil and **Vidya Shetty Kodialbail** (2021). Suspended and polycaprolactone immobilized Ag @TiO₂/polyaniline nanocomposites for water disinfection and endotoxin degradation by visible and solar light-mediated photocatalysis. *Environ Sci Pollut Res* 28, 12780–12791 (2021). DOI: <https://doi.org/10.1007/s11356-020-11206-z>.
20. Shankramma Kalikeri and **Vidya Shetty Kodialbail** (2021). Auto-combustion synthesis of narrow band-gap bismuth ferrite nanoparticles for solar photocatalysis to remediate azo dye containing water. *Environ Sci Pollut Res* DOI: <https://doi.org/10.1007/s11356-020-10879-w>
21. Amruta S. Shet & **Vidya Shetty K** (2020) TiO₂ nanofluid for oxygen mass transfer intensification in pulsed plate column, *Chemical Engineering Communications*, DOI: [10.1080/00986445.2020.1808467](https://doi.org/10.1080/00986445.2020.1808467)
22. Veni Ramachandran Nair, **Vidya Shetty Kodialbail (2020)**, Floating bed reactor for visible light induced photocatalytic degradation of Acid Yellow 17 using polyaniline-TiO₂ nanocomposites immobilized on polystyrene cubes. *Environ Sci Pollut Res* 27, 14441–14453 (2020). <https://doi.org/10.1007/s11356-020-07959-2>
23. Rajeswari M. Kulkarni K. **Vidya Shetty G. Srinikethan** (2019), Kinetic and equilibrium modeling of biosorption of nickel (II) and cadmium (II) on brewery sludge, *Water Science and Technology*(2019)090. *Water Sci Technol* (2019) 79 (5): 888–894. <https://doi.org/10.2166/wst.2019.090>.
24. Shankramma Kalikeri, **Vidya Shetty K** (2018) Solar light driven photocatalysis using mixed phase bismuth ferrite (BiFeO₃/Bi₂₅FeO₄₀) nanoparticles for remediation of dye contaminated water: Kinetics and comparison with artificial UV and visible light mediated photocatalysis *Environmental Science and Pollution Research* 25(14):13881-13893, DOI:10.1007/s11356-018-1291-0, 2018.
25. Shankramma Kalikeri. Nidhi Kamath, & Dhanashri Jayant Gadgil, **Vidya Shetty Kodialbail** (2017) Visible light-induced photocatalytic degradation of Reactive Blue-19 over highly efficient polyaniline-TiO₂ nanocomposite: a comparative study with solar and UV photocatalysis. *Environmental Science and Pollution Research*, 25(4) 25(4): 3731–3744, <https://doi.org/10.1007/s11356-017-0663-z>, 2018.

26. Sreeja S, **Vidya Shetty K** (2017), Photocatalytic water disinfection under solar irradiation by Ag@TiO₂ core-shell structured nanoparticles, *Solar Energy*, 157, 236-243.
27. Aishwarya Devadiga, K. **Vidya Shetty K**, M.B. Saidutta (2017), Highly stable silver nanoparticles synthesized using *Terminalia catappa* leaves as antibacterial agent and colorimetric mercury sensor, *Materials Letters*, 207, 66-71
28. G.M. Ratnamala , **Vidya Shetty K**, G. Srinikethan (2017), Simultaneous adsorption of Remazol brilliant blue and Disperse orange dyes on red mud and isotherms for the mixed dye system, *Environmental Science and Pollution Research*, 24(3), 18912–18925.
29. *Manjula* Puttaswamy, Govindan Srinikethan, **Vidya Shetty K**(2017), Biocomposite composed of PVA reinforced with *cellulose* microfibers isolated from biofuel industrial dissipate: *Jatropha Curcus L.* seed shell, *Journal of Environmental Chemical Engineering*, 5(2), 1990-1997
30. Puttaswamy Manjula, Govindan Srinikethan and **K. Vidya Shetty** (2017), Biofibres from biofuel industrial byproduct—*Pongamia pinnata* seed hull, *Bioresources and Bioprocessing*, 4:14; 1:10
31. Akshaya Jagannath, **Vidya Shetty K**, M.B.Saidutta (2017), Bioleaching of copper from electronic waste using *Acinetobacter* sp. Cr B2 in a pulsed plate column operated in batch and sequential batch mode, *Journal of Environmental Chemical Engineering*, 5(2), 1599: 1607.
32. Maria Babu Sumi, Aishwarya Devadiga, **Vidya Shetty K**, and Saidutta M. B (2016).Solar photocatalytically active, engineered silver nanoparticle synthesis using aqueous extract of mesocarp of *Cocos nucifera* (Red Spicata Dwarf), 2016, *Journal of Experimental Nanoscience*, <http://dx.doi.org/10.1080/17458080.2016.1251622>.
33. Anuradha Hora, **V. K. Shetty** (2016) Kinetics of bioreduction of hexavalent chromium by poly vinyl alcohol-alginate immobilized cells of *Ochrobactrum* sp. Cr-B4 and comparison with free cells, *Desalination and Water Treatment*. DOI: 10.1080/19443994.2015.1030704.
34. Shet,A, **Shetty K V**(2016) Solar light mediated photocatalytic degradation of phenol using Ag core-TiO₂shell (Ag@TiO₂) nanoparticles in batch and fluidized bed reactor, *Solar Energy*. DOI: 10.1016/j.solener.2015.12.049.
35. Sreeja S, **Shetty Kodialbail,Vidya** (2016) Microbial disinfection of water with endotoxin degradation by photocatalysis using Ag@TiO₂ core shell nanoparticles, *Environmental Science and Pollution Research*. DOI: 10.1007/s11356-016-6841-8.
36. .Veena BR, **Shetty KV**, Saidutta MB (2016) Effect of dilution rate on dynamic and steady-state biofilm characteristics during phenol biodegradation by immobilized *Pseudomonas desmolyticum* cells in a pulsed plate bioreactor. *Frontiers of Environmental Science & Engineering*. 10(4); DOI: 10.1007/s11783-016-0863-9.
37. .Shetty G, Deekshitha, **Vidya Shetty K** (2016), Media Optimization for Biodegradation of Phenol by *Nocardia hydrocarbonoxydans* NCIM 2386, *Res.J.Chem.Environ.Sci*, 4:19-24.
38. Aishwarya Devadiga, **K. Vidya Shetty**, M. B. Saidutta (2015) Timber industry waste-teak (*Tectonagrandis* Linn.) leaf extract mediated synthesis of antibacterial silver nanoparticles. *International Nano Letters*. DOI: 10.1007/s40089-015-0157-4.

39. Amruta Shet and **Vidya Shetty.K** (2015) Photocatalytic degradation of phenol using Ag core-TiO₂ shell (Ag@TiO₂) nanoparticles under UV light irradiation. Environmental Science and Pollution Research,10 DOI: 10.1007/s11356-015-5579-z.
40. G.M. Ratnamala, **Shetty K. Vidya** and G. Srinikethan (2015) Isotherm, kinetics, and process optimization for removal of Remazol Brilliant Blue dye from contaminated water using adsorption on acid-treated red mud. Desalination and Water treatment. pp109-117 DOI: 10.1080/19443994.2015.1055311 .)
41. Gauthami R. Shetty and **Vidya K. Shetty** (2015) Pathway identification, enzyme activity and kinetic study for the biodegradation of phenol by NocardiahydrocarboxydansNCIM 2386.Desalination and Water treatment. 57(19); 8789-8801 .
42. Veena BR, **Shetty KV**, Saidutta MB (2015) Shear stress effects on production of exopolymeric substances and biofilm characteristics during phenol biodegradation by immobilized Pseudomonas desmolyticum (NCIM2112) cells in a pulsed plate bioreactor. Preparative Biochemistry and Biotechnology. DOI: 10.1080/10826068.2015.1045605.
43. Dilna Damodaran,, **K. Vidya Shetty**, B. Raj Mohan (2015), Interaction of Heavy Metals in Multimetal Biosorption by Galerina vittiformis from Soil, Bioremediation J, <http://dx.doi.org/10.1080/10889868.2014.939135>
44. A.Khanna, **V.K. Shetty** (2014) Solar light induced photocatalytic degradation of Reactive Blue 220 (RB-220) dye with highly efficient Ag@TiO₂ core-shell nanoparticles: A comparison with UV photocatalysis. Solar Energy. 99; 67-76 DOI: 10.1016/j.solener.2013.10.032
45. Hora.A, **Shetty K V** (2014) Inhibitory and stimulating effect of single and multi-metal ions on hexavalent chromium reduction by Acinetobacter sp. Cr-B2. World Journal of Microbiology and Biotechnology.30(12); 3211-3219 DOI: 10.1007/s11274-014-1748-3.
46. Anuradha Hora, **Vidya Shetty K** (2014) Partial Purification and Characterization of Chromate Reductase of a Novel Ochrobactrum sp. Strain Cr-B4. Preparative Biochemistry and Biotechnology. 45(8); 769-784 DOI: 10.1080/10826068.2014.952385 .
47. Ankita Khanna , **Vidya Shetty K** (2014) Solar light-driven photocatalytic degradation of Anthraquinone dye-contaminated water by engineered Ag@TiO₂ core-shell nanoparticles. Desalination and Water treatment. DOI: 10.1080/19443994.2014.888681- (Taylor & Francis).
48. Dilna damodaran, Raj Mohan B., **Vidya Shetty K** (2014) Uptake of certain heavy metals from contaminated soil by mushroom – Galerina vittiformis. Ecotoxicology and Environmental Safety. 104; 414-422 DOI: 10.1016/j.ecoenv.2013.10.033
49. Narayani M, **Vidya Shetty K** (2014) Reduction of hexavalent chromium by a novel Ochrobactrum sp. -microbial characteristics and reduction kinetics. Journal of Basic Microbiology. 54(4); 296-305 DOI: 10.1002/jobm.201200183.
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 49. Veni Ramachandran Nair, **Vidya Shetty K**, Floating bed reactor for visible light induced photocatalytic degradation of Acid Yellow 17 using Polyaniline-TiO₂ nanocomposites immobilized on polystyrene cubes . Proceedings of International Conference on Affordable Startegies for Health and Environment (ASHE 19) held at NMAMIT during May 23-24 2019.Paper ID AE-7
 50. Akshaya Jagannath, **Vidya Shetty K**, M.B. Saidutta and Minimol M Pulsed plate bioreactor for bioleaching of Fe and Zn by Acinetobacter sp. Cr B2 from printed circuit boards, Proceedings of the International Conference on Affordable strategies for Health and Environment (ASHE – 2019), Under the Aegis of ICETE 2019 Multi-Conference Platform during May 23 – 24, 2019
 51. Preethi,Shashi Bhushan Arya, **Vidya Shetty K**, Microbial induced corrosion behaviour of multilayer nanocomposite coatings for the marine applications. Proceedings of CORCON 2019

held at Jaipur during 23-26 September 2019. Adjudged as Best Paper of the symposium “Material and Composites”

52. Deekshitha and **Shetty K.V**, "Greener and environment friendly process of synthesis of Ag-TiO₂ nanocomposite for Reactive Blue 220 removal from dye contaminated water." Proceedings of National Conference on Environmental Pollution Prevention and Control: Future Perspective, organised by Department of Chemical Engineering, NITK, Surathkal, 23rd-25th August 2019, Paper I'd : EPPC-FP43.
53. Shankramma Kalikeri and **Vidya Shetty Kodialbail**, “Auto combustion synthesis of Narrow bandgap bismuth ferrite nanoparticles for solar photocatalysis to remediate azo dye containing water." Participated and presented a paper at National Symposium on Environmental Pollution Prevention and Control: Future perspective (EPPC: FP.:2019) to be held during 23-25 August 2019 at NITK Surathkal. Paper ID: EPPC-FP46.p-64
54. Hemant Kumar ,**Vidya Shetty K** , Catalytic Activity of Silver Nanoparticles Synthesized using Tectona Grandis. Linn F. Leaf Extract in the Reduction of 4-Nitrophenol, Proceedings of Asia Pacific Conference on Nano-Micromaterials for Circular economy and Sustainability held during 29 Aug 2019 - 01 Sep 2019 at National University of Singapore organized by NUS Singapore, UCF USA and National Science Foundation.
55. Sushama Agarwalla , **Vidya Shetty K.**, Biosynthesis of Cu based nanoparticles by using the cell-free culture broth of *Alcaligenes aquatilis* and their photocatalytic applications, Proceedings of International Conference on Emerging trends in Catalysis , held on 6-8 January 2020 organized by School of Advanced Science, Vellore Institute of Technology, Vellore and Royal Society of Chemistry Paper ID : OP027 e-ISBN Number 978-93-89640-17-5
56. Shankramma Kalikeri and **Vidya Shetty Kodialbail**, “Nanocrystalline bismuth ferrite nanoparticles for solar light driven degradation of azo dye contaminated water: comparison with artificial visible light”. Proceedings of Second International Conference on Advanced Materials & Technology (ICMAT-20). Organized by Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru - 570 006, India. 16th to 18th January 2020. Paper ID ICMATP-21, p-45.
57. Shankramma Kalikeri and **Vidya Shetty Kodialbail**, “Effect of narrow band gap bismuth ferrite nanoparticles on the Photocatalytic degradation of azo dye in Aqueous Solution Under solar light irradiation”. Proceedings of KAST Sponsored International Conference on Physics and Allied science (ICPAS-2020). Organized by Bhoomareddy college of arts, science and commerce Bidar, Karnataka, India. 11-13, March 2020. Paper ID ICPAS-34,p-51.
58. Deeksha Mathew, .**Vidya Shetty K**, “Visible light irradiated photocatalytic reduction of CO₂ using novel PANI/CuO nanocomposite in aqueous medium” Proceedings of International Conference on Recent Technologies and Advanced Materials for Green Energy and Sustainable Environment (RTAMGESE-Online) organized by Department of Chemical Engineering, National Institute of Technology Tiruchirappalli, India during. March 12-13, 2021. Received Best Paper Award
59. Chetan Munegowd, Shivani R Jambur, **Vidya Shetty K.**, Bio-chemo sequential synthesis of silver oxide nanoparticles embedded in TiO₂ shell (BioAg₂O@TiO₂): A visible light active photocatalyst, Book of Abstracts of The 3rd International workshop (online) AdvPhotocat-EE 2021 organized by Hellenic Meditaranian University, Crete, Greece, 28-29 June 2021. Page 53..https://photocatalysis-workshop.eu/wp-content/uploads/2021/07/book_of_abstract_FINAL_m.pdf.
60. Shankramma K, **Vidya Shetty K.** Visible Light Bismuth ferrite embedded TiO₂ nanocomposite structures for mixed dye mineralization by photocatalysis: A strategy to harness solar energy for wastewater remediation, Book of Abstracts of The 3rd International workshop (online) AdvPhotocat-EE 2021 organized by Hellenic Meditaranian University, Crete, Greece, 28-29 June 2021. Page 97..https://photocatalysis-workshop.eu/wp-content/uploads/2021/07/book_of_abstract_FINAL_m.pdf.

61. Minimol M, **Vidya Shetty K**, Saidutta.M.B , Bioleaching of Zn from E-waste, Proceedings of Indian Chemical Engineering Congress & 74th Annual Session of Indian Institute of Chemical Engineers (CHEMCON-2021). Held at CSIR Institute of minerals and Materials Technology, Bhubaneswar, India. During 26-30 Dec 2021. Awarded Best Oral Presentation Award
62. Preethi Shetty , **Vidya Shetty Kodialbail** “Phyto fabrication of Cu₂O/TiO₂ Nanocomposite by Simultaneous Addition of Precursors for Photocatalytic Degradation of Antibiotics A Sustainable Strategy for Water Pollution Abatement”, Proceedings of TECHNOSCAPE 2023 -5th International Conference on Sustainable Technologies for Water and Wastewater Treatment. Held at Vellore Institute of Technology, Vellore, India 14-16 December 2023. Pp 107.
63. Chetan Munegowda, Shivani Ramprasad Jambur, Preethi Shetty, Deekshitha Kulal, Anjali Sunil Pawar, Thanush Shetty, **Vidya Shetty Kodialbail**. Bio-chemo sequential synthesis of silver oxide nanoparticles embedded in TiO₂ shell (BioAg₂O@TiO₂): A visible light active photocatalyst for dye degradation. In Conference Proceedings: IChE-CHEMCON 2023 An International Conference on Energy Transition: Challenges and Opportunity |December 27-30, 2023, held at HIT Kolkata . ISBN: 9789310 000719
64. R Priyanka and **Vidya Shetty K** , Biological Treatment of 4-nitrophenol Contaminated Water in a Pulsed Plate Column as a Two-Phase Partitioning Bioreactor using Nocardia hydrocarbonoxydants. Proceedings of 2nd International Conference WARMS-2024: WATER RESOURCES MANAGEMENT AND SUSTAINABILITY: SOLUTIONS FOR ARID REGIONS organized by United Arab Emirates University, at Dubai during 26-28 February 2024.
65. Sedevino Sophia , Vidya Shetty K, Electronic Waste to Resource- Microbial synthesis of CuO Nanoparticles from E-Waste and Evaluation of its Catalytic Activity (2024). In Conference Booklet of the International Conference on Environmental Sustainability (ICES-2023) 16th - 17th March 2023. Organized by Veermata Jijabai Technological Institute (VJTI) Matunga, Mumbai, Maharashtra, India (Edition I). Ed: Dr. Vikas Varekar and Dr. Keshav K. Sangle Paper ID: 029. Pp. 14. ISBN: 978-93-5747-444-3. I I P Iterative International Publishers.
66. **Gorakhe Anupama, Vidya Shetty Kodialbail** , Bio-chemo sequential synthesis of AgO@TiO₂ for visible light mediated photocatalytic degradation of dyes in floating bed reactor. Paper ID 1229 :Oral presentation at the Indian Chemical Engineering Congress 77th ANNUAL SESSION OF INDIAN INSTITUTE OF CHEMICAL ENGINEERS (CHEMCON-2024) International Conference on Role of Chemical Engineering towards Sustainable Development and Atmanirbhar Bharat December 27-30, 2024 Organized by Indian Institute of Chemical Engineers (IChE) at Dr B R Ambedkar National Institute of Technology Jalandhar-
67. **Dr. Vidya Shetty K** “Nanomaterials for water and wastewater treatment: Green engineering toward circular economy and sustainability” Invited talk delivered at the International Conference on Water (ICW 2024): From Pollution to Purification organized by School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala held at Kottayam during December 12-15, 2024.
68. **Shraddha Pai, Vidya Shetty. K**, Green synthesis and optimization of silver nanoparticles in a stirred tank reactor based on their water disinfection activity, Paper ID: 19 (Theme: EARTH): Oral presentation at 1st National Conference on Climate Resilience and Environmentally Sustainable Technologies, (NITK-CREST 2025) held during 27th February -

1st March 2025

73. **Mrudul Dhakate, Vidya Shetty. K**, Sustainable approach for the synthesis of copper oxide-modified TiO₂ for photocatalytic degradation of Tetracycline Paper ID: 18 (Theme: Water) Oral presentation at 1st National Conference on Climate Resilience and Environmentally Sustainable Technologies, (NITK-CREST 2025) held during 27th February - 1st March 2025
74. Sedevino Sophia * and Vidya Shetty K, Catalytic Activity of Metal Oxide Nanoparticles Derived from Electronic Wastethrough Green Synthesis. Abstract book of The 3rd International Electronic Conference. on Catalysis Sciences (ECCS 2025) held during 23–25 April 2025 (Online), Organized by MDPI.sciforum-112692
75. Arpitha C and Vidya Shetty K, Hydrogen Production Using Green Synthesised Copper Oxide Modified Titanium Dioxide Photocatalyst presented in a Technical Session at Indian Institute of Chemical Engineers-CHEMCON-2025 held at Annamalai University, Tamil Nadu during 27-30,2025-Received Best Paper Award
76. Poovarasan and Vidya Shetty K , Microbial synthesis of CuO/TiO₂ and Ag-Cu Modified TiO₂ Nanocomposite Particles for Water Disinfection presented in a Technical Session at Indian Institute of Chemical Engineers-CHEMCON-2025 held at Annamalai University, Tamil Nadu during 27-30,2025
77. R. Janani and Vidya Shetty K , Towards Agricultural Circularity: Biomass-derived Biodegradable Mulch Sheets with Potential for Photocatalytic Soil Remediation, Poster presented at SUSTAINX-National Flagship Conference held at IIT Madras during 24-25 July 2026. Best Poster Award
78. Janani R and Vidya Shetty K “Photocatalytic Biomass Sheets: A functional material framework for next-generation agricultural mulching”, presented during the technical sessions of the conference AMCEHA 2026, jointly organized by Coimbatore Institute of Technology and Western Norway University of Applied Sciences, Norway, held at Coimbatore Institute of Technology, Tamil Nadu, from 3-5 June 2025. Best Oral Presentation Award .

Conferences/ Short term courses/workshops /Training Programme conducted

1. Organizing Secretary for National Symposium on Environmental Pollution Prevention and Control: Future Perspective-2019(EPPC:FP-2019) Organized by Department of Chemical Engineering ,NITK Surathkal in association with Ministry of Environment, Forests and Climate Change, GoI ; Central Pollution Control Board and Karnataka State Pollution Control Board. Held during 23rd and 25th August 2019. Symposium Chair: Prof.G. Srinikethan, Organizing Secretaries : Prof Vidya Shetty K and Prof B. Raj Mohan
2. Coordinator for Short term course on “Bioremediation for Environmental Sustainability” under the GIAN programme of MHRD, GoI during 11-15th August 2018. At NITK Surathkal. Foreign faculty for the course :Prof. Pedro J Alvarez, George R. Brown Professor of Civil and Environmental Engineering and Director, NSF ERC on Nanotechnology-Enabled Water Treatment (NEWT), Rice University, Houston, TX 77005, USA. Host Faculty: Prof.Vidya Sjetty K, NITK Surathkal

3. Coordinator for a Short Term training Programme on Basics of Environmental Engineering for Engineers of MRPL Conducted held during 20-26 March 2018
4. Organizing Secretary for a National Conference on Risk Reduction and Disaster Management in Industries -2018 (RRDMI-20218) held by Department of Chemical Engineering ,NITK Surathkal in association with Department of Factories, Boilers, Industrial Safety and Health, Government of Karnataka and National Disaster Management Authority, Government of India. Held on 20th and 21st January 2018
5. Coordinator for a TEQIP II Sponsored Workshop On “Modeling and Scale- up of Bioreactors” at NITK Surathkal held on 24th and 25th March 2017
6. Organizing Secretary for the International Conference on Advances in Chemical Engineering organized by Department of Chemical Engg. At NITK Surathkal during 20-22 December 2015.
7. Coordinator for the 3 months training Programme for Production Officers of MC F Ltd. On Basics of Chemical Engineering Conducted during August to November 2015
8. Co-ordinator for Expert Lecture Series on Advances in process Control Conducted at NITK Surathkal on 4th and 5th October 2013
9. One day Workshops on Virtual lab to students and faculty of Department of Chemical Engineering, BMS college of Engineering and MVJ College of Engineering conducted in 10 May 2012 and 11 May 2012
10. Three day workshop on “Emerging Trends in Environmental Biotechnology ”was conducted during 12-14 January 2009 under TEQIP
11. Co-coordinator of two weeks Training Programme on Yokogawa CS 1000,Engineering and Maintenance organized at NITK, Surathkal under TEQIP during 11-7-2005 to 22-07-2005 at NITK, Surathkal
12. Coordinator of a CCE course for Plant operators of MRPL on Instrumentation and Process Control conducted during June –Aug.2005 at NITK, Surathkal

Conferences attended

1. Presented a paper at 3rd IWA leading Edge Conference on Water and Waste water Treatment Technologies held at Sapporo,Japan during 6th to 8th June 2005 ,organized by International Water association, London
2. Presented a paper at International Conference on Environmental Management(ICEM-2005) organized by JNTU,Hyderabad and held at Hotel Fortune Katriya,Hyderabad during 28th Oct.2005 to 30th Oct.2005.
3. Presented a paper at National Conference on Environmental Conservation (NCEC 2006) Organised by Dept. of Chemical Engg. ,BITS,Pilani during 1st to 3rd Sept. 2006 and received Best Paper award
4. Presented a paper at International Conference on Cleaner Technologies and Environmental Management (ICCTEM'07), Pondicherry Engineering College, Pondicherry , January 2007
5. Presented a paper at International Conference on Modeling and Simulation, CIT, Coimbatore , August 2007

6. Presented a paper at IWA 8th Specialised Conference on Small Water and Wastewater Systems and 2nd Specialised Conference on Decentralised Water and Wastewater (small 2008), Coimbatore, India, held during 06-09, February, 2008
7. Presented a paper at National Conference on Advances in Civil Engineering (ACS) 2008, Bhatkal, India during March 9-10 2008
8. Presented a paper at Chemcon-2011, MSRIT, Bangalore, 27-29th Dec, 2011
9. Presented a paper at International Conference on Functional Materials for Defence (ICFMD-2012), DIAT, Pune, 18- 20th May 2012
10. Participated in the 2nd World Summit on Accreditation organized by National Board of Accreditation during March 8th -10th 2014 at New Delhi
11. Presented a paper at NanoWorld Conference held during April 03-05, 2017 at Boston, USA
12. Attended and presented a paper at International conference on Nano science and engineering applications (ICONSEA-2018) held at center for nanoscience and technology, Jawaharlal Nehru Technological University, Hyderabad, Telangana, India. October 4th to 6th 2018 and received the Best Paper award.
13. Attended and presented a research paper at Circular Economy Asia Pacific Conference on Nano-Micromaterials for Circular economy and Sustainability held at National University of Singapore during 29 Aug 2019 - 01 Sep 2019 organized by University of Central Florida and National University of Singapore
14. Attended and presented Research papers online at The 3rd International workshop (online) AdvPhotocat-EE 2021 organized by Hellenic Meditaranian University, Crete, Greece, 28-29 June 2021
15. Attended and presented a research paper at IChE-CHEMCON 2023 An International Conference on Energy Transition: Challenges and Opportunity |December 27-30, 2023, held at HIT Kolkata and received the Best paper award
16. Attended and presented a research paper at 2nd International Conference WARMS-2024: WATER RESOURCES MANAGEMENT AND SUSTAINABILITY: SOLUTIONS FOR ARID REGIONS organized by United Arab Emirates University, at Dubai during 26-28 February 2024.
17. Attended and presented a research paper at the Indian Chemical Engineering Congress 77th ANNUAL SESSION OF INDIAN INSTITUTE OF CHEMICAL ENGINEERS (CHEMCON-2024) International Conference on Role of Chemical Engineering towards Sustainable Development and Atmanirbhar Bharat December 27-30, 2024 Organized by Indian Institute of Chemical Engineers (IChE) at Dr B R Ambedkar National Institute of Technology Jalandhar.
18. Attended and delivered an Invited talk at the International Conference on Water (ICW 2024): From Pollution to Purification organized by School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala held at Kottayam during December 12-15, 2024.
19. Attended and delivered a oral presentation at Indian Institute of Chemical Engineers- CHEMCON-2025 held at Annamalai University, Tamil Nadu during 27-30, 2025

Special Lectures Delivered

1. Delivered keynote lecture on “Bioengineered Nanomaterials for Catalytic Applications-A Green Engineering Approach for Environmental Sustainability” at the National Symposium on Advances in Functional Materials for Energy and Catalytic Applications (**AFMECA**), held during **May 7-11, 2025**, organized by the Department of Chemistry at NITK Surathkal.
2. Delivered an invited talk as a resource person on the topic "Effective Teaching Learning Outcomes through Research-Based Approaches" at the National Level EDP on "Transforming Learning: Innovative Pedagogies for the Future of Higher Education" organized by the Nursing Education Unit (NEU) of Nitte Usha Institute of Nursing Sciences on 6th & 7th March 2025 at AB Shetty Dental College, Deralakatte, Mangalore

3. Delivered an invited talk on “Bioengineered Nanomaterials-A Green Nanotechnological Approach towards Environmental Sustainability” as a distinguished resource person at the VGST/KSTePS-sponsored FDP on “**Advances and Recent Trends in Environmental and Energy Applications of Nanomaterials,**” 04 – 07 December 2024 organized by the Department of Chemical Engineering, MIT, Manipal.
4. Delivered an Invited talk at the International Conference on Water (ICW 2024): From Pollution to Purification organized by School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala held at Kottayam during December 12-15, 2024.
5. Delivered a Talk on Modeling of Biofilm reactors for Bioremediation in a Five day FDP on Recent Advances in Chemical, Biological and Material Science (RACBMS-2022) at Dayanand Sagar College of Engineering, Bangalore held during 14-18, March 2022
6. Delivered a Talk on Modeling Biofilm Reactors for Wastewater Treatment Applications VGST/KSTePS sponsored five day FDP on Recent Advances in Wastewater Treatment and Recycle at SDM College of Engineering and Technology Dharwad. Held during 15-19 November 2021
7. Delivered a talk on “**Membrane Technologies for Zero liquid discharge**” on 16th August 2021 at the Online ATAL-FDP on the topic “**Recent advances in management and processing of industrial and domestic waste**” at SIT Tumkur. held during 16-20 August 2021
8. Delivered a talk on Modeling of biofilm reactors for secondary wastewater treatment at AICTE sponsored STTP on “Wastewater Treatment and Characterization Techniques-Hands on Experience” organized by Department of Chemical Engineering at MIT Manipal during 17th - 22nd August 2020.
9. Delivered a talk on “Repurposing Chemical Engineering from Holistic Perspective” Chem E talks during Annual Technical Symposium “Engineer -2018” NITK Surathkal 14- 10- 2018
10. Delivered a Mentor Talk on “The Brilliance of Basic Science The Spark that Creates New Knowledge and Solves Big Problem “at DST INSPIRE Science Internship Camp of Ministry of Science and Technology, Government of India Workshop At Pilikula organized University College Mangalore. 25- 11- 2018
11. Delivered expert lectures on “Nanotechnology enabled water treatment” and “Modeling of Biofilm reactors for waste water treatment” during FDP on Advanced Techniques in Energy and Wastewater Treatment, held at NIT Calicut during July 2-7, 2018
12. Delivered invited lecture on “Nanotechnology enabled water treatment” and “Modeling of Biofilm Reactors for Bioremediation” on 26th July 2017 for the One week Faculty Development Programme on - ENVIRONMENTAL POLLUTION CONTROL AND REMEDIATION” at SIT Tumkur
13. Delivered a talk on “Modeling of Biofilm Reactors –Conceptualization to Validation” at the TEQIP II Sponsored Workshop On “Modeling and Simulation of Bioreactors” at NITK Surathkal held during 24th and 25th March 2017
14. Delivered an invited lecture on ““Packed Bed Column Adsorption- A Case Study of Dye removal using activated red mud”” during KSCSTE & MHRD –TEQIP II Sponsored STTP ON Theory and Applications of Adsorption Processes –TAAP 2016 27 June – 02 July, 2016 Chemical Engineering Department, National Institute of Technology Calicut
15. Delivered an invited talk on ““Biologically engineered silver and titanium dioxide nanoparticles for antibacterial, sensor and photocatalytic applications” at National conference on “Recent Innovations in Process Engineering and Sustainability (RIPES – 2016)” held on 22nd and 23rd April 2016 organized by Department of Chemical Engineering, at KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi
16. Resource Person for a course on Heat Transfer for Production Officer Trainees of MCF LTD during Aug-Nov-2015.
17. Delivered an invited talk at the National Seminar on Optimization Techniques and Research
18. Methodology organized by Srinivas College of Pharmacy and Rajiv Gandhi University of Health Sciences, Bangalore and delivered a talk on Optimization Techniques on 27th September 2014

19. Delivered an invited talk at National Conference on Women in Science and Engineering at Sri Dharmasthala Manjunatheshwara College of Engineering & Technology, Dhavalagiri, Dharwad 5th July to 6th July 2013
20. Delivered an invited lecture on Two Phase partitioning Bioreactors for biodegradation of Phenol at the One week FDP program CHANGING SCENARIO IN ENERGY AND ENVIRONMENT on 13th December 2013 at NIT Calicut .
21. Delivered a talk on “Two Phase partitioning Bioreactors for removal of Phenol” at National Seminar on “Trends in Environmental Biotechnology and its Applications” Sponsored by UGC and DBT (under Star College Scheme) on 11-12 December, 2013 at St. Aloysius College, Mangalore.
22. Delivered an invited talk on “Biotechnological Solutions to Combat climate Change” at a Seminar on “Technological Solutions to Combat Climate Change” conducted by Institute of Engineers (Dakshina Kannada and Kodagu Chapter) on account of Engineers Day Programme on 12th September 2009 at MIT Manipal
23. Delivered an invited talk on “Biotechnology for Energy Needs” at One Day National Workshop on “Energy Sustenance towards a better Environment” conducted by Dept. of Chemical Engineering, S.D.M College of Engineering and Technology, Dharwad on 25th September 2009
24. Delivered an invited talk on “Emerging Trends in Environmental Biotechnology” at One Day National Seminar on “Emerging Trends and Future Prospects in Biotechnology” conducted by Post Graduate Department of Biotechnology, Alva’s College, Moodbidri on 15th October 2009
25. Delivered a Talk on ‘Modeling of Bioreactors’ in MHRD sponsored training programme on ‘Industrial Biotechnology’ in the department of Chemical Engineering at NITK Surathkal held during July-August 2008
26. Resource person of a CCE course for Plant operators of MRPL on Instrumentation and Process Control conducted during June – Aug. 2005 at NITK, Surathkal.
27. Resource Person in CCE Refresher Course for Shift Engineers of MCF on ‘Awareness in
28. Engineering Concept” during 13-10-2003 to 25-10-2003. Lecture delivered on Process Control and Instrumentation.
29. Resource Person in CCE-BARC Refresher Course for plant operators of RMP, Mysore on Unit Operations in Chemical Engineering Practice, During 27th Jan. to 5th Feb 2004. .Lecture delivered on Process Control and Instrumentation.
30. Delivered a lecture on Biomass energy in the AICTE/ISTE STTP on ‘Solar energy and its Applications’ conducted by Dept. of Electrical Engineering, NITK, Surathkal in 2002.
31. Special lecture series delivered on Transport phenomena in Bioprocesses for M.Sc Biotechnology students of St Aloysius College, Mangalore in Jan-Feb 2004 on invitation.
32. Special lectures delivered on Transport phenomena and Instrumentation in Bioprocesses to M.Sc Biotechnology students of St Aloysius College, Mangalore. In Jan-Feb 2005 on
33. Special lectures delivered on invitation to M.Sc. Industrial Chemistry students of Mangalore University on Unit operations.

Member of External Committees

- Chairperson of Audit team for conducting Third-party audit of City Action Plan for Davangere City under National Clean Air Programme under Ministry of Environment & Forests, GoI

- Expert member of a joint Committee constituted by the Karnataka State Pollution Control Board to investigate the public complaints on a Sugar Industry in Belagavi District.
- Expert Member for Curriculum Conclave- Manthan 2025 – Redefining Learning organized by Manipal Institute of Technology Manipal held on September 26, 2025
- Member of Faculty Selection Committee NERIST Arunachal Pradesh for selections held in January 2025
- Member of Institutional Protocol Approval Committee for a PhD candidate under MAHE, Manipal since 9 December 2024
- Member of BOS of Chemical Engg at Karnataka Polytechnic Mangalore since April 2 2024.
- Member of the Task force to prepare a Report “On the Impact of Emerging AI Tools on Employment of Engineering Graduates and Recommendations for Engineering Education” for Ministry of Education ,GoI (the Nov 2023 to 10th April 2024
- Member of Board of Studies Saintgits College of Engineering ,Kottayam,Kerala for three years from 17-10-2024
- Expert Member of Selection committee for Promotions for Chemical Engineering MAHE, Manipal 1st Jul 2024
- Expert Member of Selection committee for Promotions for Chemical Engineering MAHE, Manipal 6th Jan 2024.
- Member of the International Scientific Committee of The 3rd International workshop (online) AdvPhotocat-EE 2021organized by Hellenic Meditaranian University, Crete, Greece, 28-29 June 2021
- Member of BOS as VTU Nominee for Department of Chemical Engineering SIT Tumkur from May 2024 onwards
- Member of BOS as VTU Nominee for Department of Chemical Engineering BMS College of Engineering Bangalore during 2022-23 onwards
- Member of BOS as VTU Nominee for Department of Chemical Engineering RV College of Engineering Bangalore during 2022-23 onwards Chemical
- Member of BOS for Department of Engineering KLE MS Sheshagiri College of ENgg. Belgaon during 2022-23 onwards
- Member of BOS First year MAHE ,Manipal
- Member of Advisory Committee , Department of Chemical Engineering.MIT Manipal
- Member of BOS for Department of Chemical Engineering, M V J College of Engineering Bangalore during 2020-21 onwards
- Member of BOS for Department of Chemical Engineering, Siddhaganga Institute of Technology Tumkur during 2020-21
- Member of Departmental Advisory Committee, Department of Chemical Engineering, MIT Manipal, since 2017-18
- Member of BOS for Department of Biotechnology, Basaveshwara College of Engineering, Bagalkot during 2010-11
- Member of Advisory Board for Masters programme in Biotechnology of Department of Biotechnology, Institute of Agri Biotechnology, College of Agriculture, Dharwad UAS, Dharwad since 2012
- Member of BOS at MSRIT Chemical Department 2013-15
- Presently Member of Departmental Advisory Committee for Chemical Engineering Department at MIT Manipal
- Member of Doctoral thesis advisory Committees for four doctoral candidates from Department of Biotechnology and the Department of Chemical Engineering at MIT Manipal

Member of Professional Bodies

- Life Member of ISTE
- Life Member of IChE

Declaration

I hereby declare that the information furnishes above is true to the best of knowledge

Vidya Shetty K

Date:15-10-2026

Place: Srinivasnagar
