



Dr. JAYALATHA N A

ASSISTANT PROFESSOR

+91 8971387766

najayalatha@gmail.com

D. No. 494/2A, Anand Villa, HAL Old Airport Road, Vibuthipura,
Vinayaka Nagara, Bangalore-560037

Scopus ID 60004954

Google Scholar <https://scholar.google.com/citations?user=WPkBwxgAAAAJ&hl=en>

Citations: 17; h-index: 2; i10 index: 1 as on Oct 2022

Orcid <https://orcid.org/0000-0002-2095-1706>

About Me

To pursue a challenging career and be the part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the latest trends in teaching along with research field with sheer determination, dedication and hard work.

Personal Profile

Date of birth: 11th April 1992

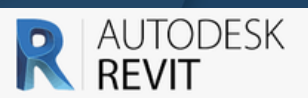
Marital Status: Married

Nationality: Indian

languages: English, Kannada, Tulu, Hindi

Hobbies & Interests: Reading books, Writing, Listening to music, Playing chess, Sketching, Travel, Nature Love, Gardening.

IT SKILLS



Education

Ph.D.

“Biosurfactant Production from Low-Cost Substrates for the Degradation of Selected Emerging Pollutants”, (August 2022) in Environmental Engineering National Institute of Technology Karnataka, (NITK) Surathkal.

M.Tech

(83.25%) Environmental Engineering, 2014-2016,
Bapuji Institute of Engineering and Technology, Davangere.

B.E.

(73.26%) Civil Engineering, 2010-2014,
Vivekananda College of Engineering and Technology, Puttur

PUC

(53.83%) in Science (PCMB),
Sarojini Madhusudan Kushe PU College, Mangalore, 2010.

SSLC

80.64% (Kannada Medium),
Srinivas Patashala Oriental HS, Mangalore, 2008

Teaching experiences:

Assistance Professor

PG Dept. of Environmental, Civil Engineering Department,
Basaveshwar Engineering College,
Bagalkot. (April 2022-till date)



Assistance Professor

Department of Civil Engineering,
Alva's Institute of Engineering and Technology,
Moodubidire. (July 2016 - June 2017)



Awards & Honors:

- Ph.D. Fellowship awarded by MHRD (July 2017- March 2022).
- International Travel Grant awarded by Department of Biotechnology (DBT), Government of India for International Conference on Bioscience and Biotechnology (2019), but declined to due to high airfare.
- Best Paper and Oral presentation awarded with 100 Euros (honored by Springer) by SEEC-2018 International Conference Organized by IIT Roorkee and NIT Uttarakhand, December 2018.
- Best project in Civil Engineering awarded by Vivekananda College of Engineering and Technology, Puttur, 2014.
- First place bagged in Cross Roads (Quiz) and Concretus National Level Fest of CONTINUUM-2014 held at Beary's Institute of Technology, Mangalore.
- Secured 8th Rank in the International Chinthana Science Exam 2004-2005 held at Government Senior-Primary School, Subrahmanya.

Research Project Grant

- Submitted the project titled "Removal of Veterinary Pharmaceuticals from Wastewater Using Low-Cost Produced Biosurfactant" to SERB-POWER Grant on October 2022.
- Submitted the project titled Faster Reduction of Sugarcane Industry Process Wastewater Load using Microalgae and Enrichment of Biofertilizer with Algal Biomass to SERB-STARTUP Grant on March 2023.
- Submitted the project titled "Forecasting of Floods in Ghataprabha River Basin using Ensemble of Artificial Neural Network Algorithms" to SERB- Core Research Grant on March 2023.
- Applied for 46th KSCST funding- UG Project on Study on Performance of Microalgae in Wastewater for the Removal of Triclosan.
- Applied for 46th KSCST funding- UG Project on Application of Microalgae for the Removal of Wastewater Nutrients.

Other Achievements:

- KSCST Project fund of Rs. 6000.00 granted for UG Project and presented the project seminar on "Sustainable Waste Disposal System for a Rural Area" in 45th series State Level Student Project Program (SPP) held at VTU Belagavi, 2022.
- National Level UG Project on "Lab Scale Study on the Constructed Wetland for the Treatment of Wastewater for the Bhagavati Village: Waste Management System" project exhibited in the National Level Competition of Smart India Hackathon-2022 held at QIS College of Engineering and Technology, Andhra Pradesh, India.
- Secured 2nd place in research paper writing competition organized by Bharatiya Shikshan Mangal held on 22 October 2022.

Areas of Expertise

- Expertized in Biosurfactant production using various bacterial species with analytical techniques necessary for the identification of the Biosurfactant and its performance in the environmental field.
- Trained in statistical design of experiments (Minitab and Design Expert Software) related to fermentation media and optimizing the removal rate of heavy metal from soil.
- Expertise in HPLC for the detection of Emerging Pollutants in wastewater.
- Experience in the Environmental Biotechnology (biodegradation, degradation of heavy metal and emerging pollutants of triclosan, ibuprofen and ketoprofen).
- Experienced in Pressure Plate Apparatus and Membrane Pressure Plate Apparatus instalment in lab and its maintenance at NITK.
- Experienced in water sampling (Bhattrahalli Lake, Bangalore) and stack and ambient air quality monitoring (PEPSICO Company and PALLADIUM Construction Site, Bangalore).
- Experienced in water and wastewater analysis, analysis of air sample, soil analysis and trained for various instruments such as Respirable Dust Sampler (RDS), Fine Particulate Sampler (FIANE), Atomic Absorption Spectrophotometer (AAS), Inductively Coupled Plasma Optical Emission spectrometry (ICP-OES) and Ozone Analyser during Internship at Environmental Health and Safety Research and Development Centre (EHSRD), Bangalore.

Academic – pedagogical exposure List of Project Guided:

- UG: Utilization and Alternative Disposal of Dairy Sludge by Vermicomposting, 2017.
- Sustainable Waste Disposal System for a Rural Area, 2022.
- PG: Fabrication of Graphene Oxide Membranes for Water Desalination, 2022.
- Municipal Wastewater Treatment by Constructed Wetlands, 2022.

Course taught to UG Students

- Environmental Engineering - I
- Solid Waste Management
- Environmental Engineering-II
- Environmental Studies
- Applied Engineering Geology
- Rural Water Supply and Engineering
- Environmental Engineering Lab
- Applied Engineering Geology Lab

Course taught to PG Students

- Wastewater Treatment Technology
- Global Warming and Climate Technology
- Hazardous Waste Management

Worked as Env Engg Lab Incharge at AIET, Moodabidri

Examiner ship of academic bodies

As paper setter and evaluator for UG (both theory and practical exams) and PG (theory) course of the Basaveshwar Engineering College, Bagalkot.

Research Publications:

Peer reviewed journals:

1. Jayalatha N. A, Ashish Prabhu and Veena Kumara Adi. (2022). "Assessing the Potential of Biosurfactant Produced by *Bacillus subtilis* MTCC 2423 to Remediate the Zinc Contaminated Soil: A Process Optimization Approach" *Arabian Journal for Science and Engineering*, Springer - Under Review.
2. Jayalatha, N. A and Devatha, C. P. (2022). "Experimental Investigation for treating Ibuprofen and Triclosan by Microbial Biosurfactant from Domestic Wastewater" *Journal of Environmental Management*, DOI: 10.1016/j.jenvman.2022.116913, Elsevier, Impact Factor– 8.91.
3. Jayalatha, N. A and Devatha, C. P (2019) "Degradation of Triclosan from Domestic Wastewater by Biosurfactant Produced from *Bacillus licheniformis*" *Molecular Biotechnology* (Springer), 61, 674–680, <https://doi.org/10.1007/s12033-019-00193-3> (Impact factor- 2.86)
4. Jayalatha, N. A and Devatha, C. P (2018) "Removal of Triclosan by *Bacillus licheniformis* from Domestic Wastewater, Mangalore Region", *Proceedings of International Conference on Sustainable Energy and Environmental Challenges (3rd SEEC)*, SEEC No.128, December 18-21, 2018, IIT Roorkee, India.
5. Jayalatha, N. A., Shreyas, A., Kadambari, S. T., Mahendra, S. P., Vinay, K. (2018) "Restoration of Physico-Chemical Characterization of Dairy Sludge by Vermicompost", *Proceedings of International Conference on Sustainable Energy and Environmental Challenges (3rd SEEC)*, SEEC No.135, December 18-21, 2018, IIT Roorkee, India.
6. Jayalatha, N. A and Veena, K. A (2017) "Restoration of Physico-Chemical Properties of Zinc Contaminated Soil by Bacterial Biosurfactant", *International Journal of Current Trends in Science and Technology*, ISSN: 0976-9730, Vol. 7, Issue. 10, Page no: 20329- 20335, <https://doi.org/10.15520/cstt.v7i10.57>.
7. Jayalatha, N A and Veena, K. A (2017) "Seasonal Variations in Physico-Chemical Characteristics of Water and Soil Quality of Gurupura River in Mangalore, South Coast of India", *International Journal of Applied Science & Technology Research Excellence* Vol. 7 Issue 3, May-June 2017, ISSN NO.2250-2718(Print), 2250-2726, 11-19, <http://ijastre.org/images/stories/vol7is3/3.pdf>.
8. Veena, K. A., Jayalatha, N. A and Veena, D. V (2016) "Physico-Chemical Analysis of Packaged Mineral Water Bottles Floating in and around Central Karnataka", *Journal of Applicable Chemistry*, ISSN: 2278-1862, 5 (5): 1191-1198, <http://www.joac.info/ContentPaper/2016/4-20.pdf>.
9. Veena, D. V., Jayalatha, N. A and Veena K. A (2016) "Water Quality Index of Bangalore's Bhattrahalli Lake", *World Journal of Pharmacy and Pharmaceutical Sciences*, ISSN 2278-4357, Volume 5, Issue 2, 491-506.
10. Mamatha, H. M, Jayalatha, N. A, Veena, D. V., Veena, K A (2015) "Assessment of Ground Water Quality in and Around Shanthisagar Lake, Channagiri Taluk Region, Karnataka, India", *EM International Journal*, ISSN 0257-8050, 34(3): 527-534.
11. Prashantha, Adharsh, P., Jayalatha, N. A, Kishansagar., Nalinakshi, M (2014) "Effective Utilization of Municipal Solid Waste Using Vermiculture", *Imperial Journals*, Volume No1, Issue No1.

Abstracts in referred international conferences:

1. Jayalatha, N. A and Devatha, C. P (2022) "Application of Pseudomonas aeruginosa for the Removal of Triclosan and Ibuprofen from Contaminated Domestic Wastewater", International Conference on Environmental Science and Engineering (ICESE - 2022), held during 20-23rd January 2022 at IIT Bombay, India.
2. Jayalatha, N. A and Devatha, C. P (2019) "Degradation of Triclosan from Domestic Wastewater by Biosurfactant Produced from Bacillus licheniformis", 4 th International Conference on Bioscience and Biotechnology (Bio-Tech 2019)" held by The International Institute of Knowledge Management (TIKM), Sri Lanka during 21-22 February 2019 at Kuala Lumpur, Malaysia.
3. Jayalatha, N. A and Devatha, C. P (2018) "Removal of Triclosan by Bacillus licheniformis from Domestic Wastewater, Mangalore Region", International Conference on Sustainable Energy and Environmental Challenges (SEEC-2018), held by IIT Roorkee and NIT Uttarakhand during 18-21 December at Indian Institute of Technology Roorkee, India.
4. Jayalatha, N.A., Veena, D. V., Veena, K. A. (2015) "Water Quality Index of Bangalore's Bhatrahalli Lake", International Conference on Advances in Chemical Engineering (ICACE-2015), held during 20-22 December 2015 at National Institute of Technology Karnataka, Surathkal, India.
5. Jayalatha N. A and Veena Kumara Adi (28 - 30th December 2016) "Seasonal variations in physico-chemical characteristics of water quality of Gurupura river in Mangalore, south coast of India" at Lake 2016: International Conference on Conservation and Sustainable Management of Ecologically Sensitive Regions in Western Ghats THE 10TH BIENNIAL LAKE CONFERENCE Organised by IISc., <http://ces.iisc.ernet.in/energy>

Abstracts in referred national conferences:

1. Divya, Veena S. S, Jayalatha N. A (2022) "Implementation of Wetland for Wastewater Treatment", STROBES 2022, during 25th July held by Department of Biotechnology, Basaveshwar d College, Karnataka.
2. Jayalatha, N. A and Devatha, C. P (2020) "Spectrometry Determination of Ibuprofen in Domestic Wastewater and its Removal by Bioremediation", National Conference in Civil Engineering New and Effective Innovations, Technologies and Key Challenges 2020 (NCCE), held during 30-31 January 2020 at National Institute of Technology Karnataka, Surathkal, India.
3. Prashantha, Adharsh, P., Jayalatha, N. A, Kishansagar, Nalinakshi, M (2013) "Qualitative Study on Physical and Bio-enzymatic Stabilization of Lateritic Soil", National Conference on Emerging Trends in Environment & Energy Management (NCEEM-2013), held during 18-19 October 2013 at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi, India.

Extra Co-curricular Activities:

- Presented the technical paper in THANTRAJNA-14 (2014) at National Level Technical Fest in KVG College of Engineering, Sullia, Dakshina Kannada.
- Presented the technical paper in TECH YUVA-2014 at the National Level Technical and Cultural Extravaganza held at Srinivas School of Engineering, Mukka, Mangalore.
- Participated in Perfection (Center Line Marking) of Tech YUVA-2014 in National Level Technical and Cultural Extravaganza held at Srinivas School of Engineering, Mukka, Mangalore.
- Participated in Paper Presentation in JNANA SANGAMA-2014 at the National Level Technical Competition held at Vivekananda College of Engineering and Technology, Puttur, Dakshina Kannada.
- Presented the paper entitled with "Biogas Production by Using Paddy Straws" at the National Level Techno-Culture Fest CHAKRAUYA-2014 held at Alva's Institute of Engineering and Technology, Moodbidri.

Professional training Attended:

- Two days workshop on Outcome Based Education at BEC Bagalkote on 1 and 2 Feb, 2023.
- Workshop on writing R&D Grant Proposal for Women Engineers on Nov 10-11, 2022 Conducted at IIT Tirupati.
- Faculty Development Programme on “Resource recovery and reuse: waste to wealth” from 17th -21st January of 2022 held by K. S. School of Engineering and Management, Bangalore.
- Five Days National E-Workshop on Key Challenges and Options in Environmental Management from 15th and 19th March 2021 held by NITK, Surathkal.
- Two Days International Seminar on INCENSED TO FILL-ENGINEERED LANDFILLS on 4th and 5th March 2021 held by NITK, Surathkal and The Institute of Engineers (India).
- One-week online Webinar cum Faculty Development Program on “Current Progress and Future Prospects of Biotechnology” organized by Dept. of Biotechnology, CBIT in association with Andhra Pradesh Akademi of Sciences, during 8-13th June 2020.
- One-week online Student Development Program on “Quantum Geographic Information System (QGIS)” organised by Don Bosco College of Engineering, Goa in association with Spoken Tutorial Project, IIT, Bombay, during 1-5 th June 2020.
- Three days online Faculty Development Program on “Importance of Water, Sanitation, Health and Waste Management during Epidemics” organized by Jain College of Engineering, Belagavi during 27-29th May 2020.
- One day online workshop on “Scientific Writing for Journals” Organized by SPRINGER NATURE on 15th May 2020.
- TEQIP sponsored three days National Workshop on “Intelligent Optimization Techniques for Engineering Problems” at NITK, Surathkal during 19-21th August 2019.
- One day workshop on “Disaster Management in Chemical Process Industrial Complexes (DMCPIC-2018)” held during 17 November 2018 at National Institute of Technology Karnataka, Mangalore.
- Three-day Faculty Development Program on “Jnana-2017” held during 24 th 26th January 2017 at Dept. of Civil Engineering, VCET, Puttur.
- Workshop on Modern Approach for Effective Management of Municipal Solid Waste (MAEM – MSW) held at Bapuji Institute of Engineering & Technology, Davangere on 14th November 2015.

References :

Name	Dr. Devatha C P	Dr. S. Shrihari	Dr. Veena Kumara Adi	Dr. Ashish A Prabhu
Affiliation	Associate Professor	Professor	Associate Professor	Assistant Professor
Institution	NITK, Surathkal	NITK, Surathkal	BIET Davanagere	NIT, Warangal
Email ID	devathafce@nitk.ac.in	s.shrihari@gmail.com	drveena.biet@gmail.com	ashishp@nitw.ac.in
Cell No	+91 9483032757	+91 9449087533	+91 9449678206	+91 9582700174

DECLARATION:

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Date: 20/03/2023

Place: Bangalore

With Regards

Dr. Jayalatha N.A