

Detailed CV

Name: Dr. Tharavathy N.C.

Educational Qualification: M.Sc., M.Phil., Ph.D.

Designation: Professor

Address for Correspondence: Department of Biosciences
Mangalore University
Mangalagangothri - 574 199, Mangalore
Karnataka State, India.



E-mail: tharabiosciences@gmail.com

Phone: 9964642367

Research Areas: Biodiversity, Environmental pollution and control.

Professional Teaching Experience: 28 years

Research Guidance (M.Phil. /Ph.D.):

Completed students' list (with hyperlinks to their CV if available)

1. Dr. Shini Krishnan
2. Dr. Safiullah Sherzad
3. Dr. Vidya Padmakumar

Ongoing Registered Students' list

1. Gatha R S
2. Santhosh
3. Sushmitha
4. Juliet Babitha Quadros
5. Leena Mary Jose
6. Maneesha
7. Mohammad Zamir Taqwa (International student)

Research Projects (List) (if applicable)

Completed

Ongoing

Consultancy Projects (if applicable)

Completed

Ongoing

Professional Collaboration (if applicable)

International

National

Research Journal Publications (list)

International

1. Tharavathy N.C. and Hosetti B.B. 1998. Experimental laboratory oxidation ponds for assessing lead toxicity on microorganisms, *International Journal of Environmental Education and Information*, 17(4), 353-356, ISSN: 0144-9281.
2. Tharavathy N.C. Hosetti B.B. and Krishnamoorthy M. 2003. Laboratory model waste stabilization ponds for assessing copper toxicity to algae and protozoa, *International Journal of Mendel*, 20(1-2), 51-52, ISSN: 0970-9649.
3. Tharavathy N.C. and Krishnamoorthy M. 2007, Impact of malathion on oxidation pond performance, *Ecology, Environment and Conservation*, 13(4), 745-750, ISSN: 0971-765X.
4. Sowmyashree S., Tharavathy N.C., Reema O. L. and Nannu S. 2013. Seasonal changes in the biochemical composition of freshwater bivalves, *Parreysia spp.* from Tungabhadra river, Karnataka, *International Journal of Pharma Science and Research*, 4(5), 94-99, ISSN: 0975-9492.
5. Sowmyashree S., Tharavathy N.C., Reema O. L. and Nannu S. 2013. Seasonal variation in the physico-chemical characteristics along the upstream of Tungabhadra river, Western Ghats, India, *International Journal of Plant, Animal and Environmental Science*, 3(1), 242-246, ISSN: 2231-4490.
6. Tharavathy N.C. and Krishnamoorthy M. 2013. Impact of monocrotophos on the physico-chemical and biological parameters of oxidation ponds, *The Online International Interdisciplinary Research Journal*, 3(6), 224-229, ISSN: 2249-9598.
7. Tharavathy N.C. and Krishnamoorthy M. 2014. Impact of iron on the biodiversity of algae and protozoa in oxidation ponds, *International Journal of Pharma Medicine and Biological Science*, 3(1), 77-84, ISSN: 2278-5221.
8. Tharavathy N.C. and Hosetti B.B. 2014. Impact of cadmium on the biodiversity of algae, protozoa, bacteria and fungi grown in oxidation ponds, *International Journal of Pharma Medicine and Biological Science*, 3(4), 58-63, ISSN: 2278-5221.
9. Tharavathy N.C. 2016. A Study on Soil Characteristics in Urban and Rural areas of Mangalore, Karnataka, *International Journal of Research in Environmental Science*, 2(2), 5-8, ISSN: 2454-9444.
10. Tharavathy N.C. 2016. Ecological Study of Shambavi Estuary, Karnataka, *The Online International Interdisciplinary Research Journal*, VI, 35-40, ISSN: 2249-9598.
11. Sister Daina M.F., Sandhya and Tharavathy N.C. 2016. Studies on the occurrence of hydrophytes in relation to water parameters in fresh water ecosystems in Dakshina Kannada, *International Journal of Modern Science and Engineering Technology*, 3(4), 19-22, ISSN 2349-3755.

12. Shini Krishnan and Tharavathy N.C. 2016. Biochemical composition of *Donax* Spp. of Kushalnagar beach, West Coast, Kerala, *International Journal of Scientific Research*, 5(6), 357-359, ISSN: 2277-8179.
13. Tharavathy N.C. and Attiya Ilham, M.H. 2018. Isolation, screening and identification of cellulose producing bacteria from rotten fruits, *Ecology, Environment and Conservation*, 24(4), 1847-1850, ISSN: 0971-765X.
14. Safiullah Sherzad and Tharavathy N.C. 2022. Morphometric analysis of Baghlan Province for Amu River basin in Afghanistan using Remote Sensing and GIS, *Ecology, Environment and Conservation*, 28(2), 964-974, ISSN: 0971-765X. Doi: <http://doi.org/10.53550/EEC.2022.v28i02.059>
15. Yambem Tenjing Singh, Tharavathy N.C. and Bina Chanu L. 2024. Exploring moth diversity in the ecosystem of Mangalore University campus, Karnataka, *International Journal of Insects*, 1(1), 22-29, doi: 10.37591/IJI
16. Mohammad Zamir Taqwa and Tharavathy N.C. 2025. A study on the seasonal variability of air pollutant concentrations in Kabul City, Afghanistan, *Ecology, Environment and Conservation*, 31 (February Suppl. Issue), S345-S350, ISSN: 0971-765X. Doi: <http://doi.org/10.53550/EEC.2025.v31i02s.061>
17. Mohammad Zamir Taqwa and Tharavathy N.C. 2025. A Study on air pollution levels in Kabul City, Afghanistan, *International Journal of Plant and Environment*, 11(1), 66-74, Doi: 10.18811/ijpen.v11i01.08

National

1. Tharavathy N.C. and Hosetti B.B. 2003. Biodiversity of algae and protozoa in natural waste stabilization pond. *Journal of Environmental Biology*, 24(2), 193-199, ISSN: 0254-8704 (IF 0.697).
2. Tharavathy N.C. and Krishnamoorthy M. 2004. Experimental laboratory oxidation ponds for assessing chromium toxicity on algae and protozoa, *Proceedings of Annual Conference*, National Environmental Science Academy, New Delhi, 97-101.
3. Tharavathy N.C. 2010. A study on solid waste quality in Mangalore city, Dakshina Kannada District, India, *Pollution Research*, 29(2), 67-70, ISSN: 0257-8050.
4. Tharavathy N.C. 2010. A study on ground water quality in Mangalore city, India. *Asian Journal of Environmental Science*, 4(2), 142-145, ISSN: 0973-4759.
5. Tharavathy N.C. 2010. Hospital Waste Management in Mangalore city, *Proceedings of 6th Kannada Vijnana Sammelana*, Karnataka Science Congress, 30-32.
6. Tharavathy N.C. and Krishnamoorthy M. 2013. Impact of manganese on the biodiversity of algae and protozoa grown in oxidation ponds, *Indian Journal of Scholarly Research*, 2(11), 5-7, ISSN: 2278-8271.

7. Tharavathy N.C. 2014. Water quality management in Shrimp culture, *Acta Biologica Indica*, 3(1), 536-540, ISSN: 2319-1244.
8. Tharavathy N.C., Krishnamoorthy M., Hosetti B.B. 2014. Oxidation Pond: A tool for wastewater treatment, *Research and Reviews: Journal of Ecology and Environmental Science*, 2(1), 1-4, ISSN: 2347-7822.
9. Shini Krishnan and Tharavathy N.C. 2016. Seasonal variation in the physico-chemical properties of the coastal waters at Kushalnagar beach, Kasaragod, Kerala, *Indian Journal of Applied Research*, 6(7), 585-588, ISSN: 2249-555X.
10. Tharavathy N.C. 2018. Production and optimization of cellulase enzyme using cheap substrates by *Aspergillus niger* isolated from soil, *Asian Journal of Bio science*, 13(1), 16-20, ISSN: 0973-4899.
11. Tharavathy N.C. and Aishwarya 2019. Evaluation of physico-chemical properties and plant growth studies of vermicompost produced by Earthworms from some Terrestrial and aquatic plant leaves, *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*, 21(4), 973-979, ISSN: 0972-3005.
12. Tharavathy N.C., Sravya Raveendran K.K. and Shobith 2019. Impact of copper and lead on the water quality and growth of *Lemna minor* L. in macrophyte ponds, *Pollution Research*, 38, 218-222, ISSN: 0257-8050.
13. Vidya Padmakumar and Tharavathy N.C. 2019. A checklist of microalgae in the freshwater lakes of southern Bangalore (Kar.) and Hosur (T.N.) border, India, *The Bioscan*, 14(4): 261-263, ISSN: 0973-7049.
14. Vidya Padmakumar and Tharavathy N.C. 2020. First identification of the chlorophyte algae *Pseudokirchneriella subcapitata* (Korshikov) Hindak in lake waters of India, *Nature Environment and Pollution Technology*, 19(1), 409-412. ISSN: 0972-6268.
15. Safiullah Sherzad and Tharavathy N.C. 2022. Sustainability for the Watershed Management in Afghanistan: Example from Amu River Basin, *Grassroots Journals*, 5(2), 44-58, ISSN: 2581-6853. Doi: <https://doi.org/10.33002/nr2581.6853.050204>

Books / Book chapters / Translations published with ISBN No.

1. Tharavathy N.C. and Krishnamoorthy M. 2013. *Metals and pesticides impact on algae and protozoa*, LAP LAMBERT Academic Publishing, Germany, ISBN: 978-3-659- 41234-9.
2. Mohan B.S., Tharavathy N.C. and Hosetti B.B. 1998. Use of Aquatic Plants as biological filters for Wastewater Treatment: An Overview, *Environmental Impact Assessment and Management* (Ed: B.B. Hosetti and A. Kumar), Daya Publishing House, Delhi, 291-305, ISBN: 81-7035-182-0.

3. Nahided Bojnourdi, Suresha M. and Tharavathy N.C. 2015. Basic Facilities of Tourism Industry on Economic Growth of India (Since 2001-2013), *Community Empowerment in Changing World – Issues & Challenges*, BookRix GmbH & Co. KG, Germany, 349-353, ISBN: 978-3-7368-2021-0.
4. Vidya Padmakumar and Tharavathy N.C. 2019. Effect of anti-depressant Citalopram on the growth rate of green alga *Pseudokirchneriella subcapitata*, *Recent Trends in Agriculture, Veterinary and Life Sciences* (Ed: Ratnakar D.B. and P.B. Reddy), 81-85, ISBN: 978-93-86435,19-4.
5. Gatha R.S. and Tharavathy N.C., 2024. Ecological dynamic and Environmental challenges of Pookode Lake-A comprehensive review, *Climate change and Sustainable development* (Ed: Pradeepan Periyat and Manoj K.), Centre for Atmospheric Sciences and Coastal Ecological Studies (CASCES), Department of Environmental Studies, Kannur University, 12-15, ISBN No. 978-81-967107-0-5.
6. Gatha R.S. and Tharavathy N.C., 2024. Interactions of climate change, eutrophication, and harmful algal blooms: Implications of water resource management-A comprehensive review, *Climate change and Sustainable development* (Ed: Pradeepan Periyat and Manoj K.), Centre for Atmospheric Sciences and Coastal Ecological Studies (CASCES), Department of Environmental Studies, Kannur University, 18-22, ISBN No. 978-81-967107-0-5.
7. Mohammad Zamir Taqwa and Tharavathy N.C., 2024. Mitigation measures to the air pollution in Kabul city, Afghanistan, *AI and Education 5.0 – Future of Education system in India*, V.E.T. First Grade College, Bengaluru, 229-232. ISBN: 978-93-340-9762-7.

Patents (list) (if applicable)

Published

Granted

Papers / poster presentations in Conferences / Seminars / Symposia (list)

International

1. Tharavathy N.C., Experimental laboratory oxidation ponds for assessing chromium toxicity on algae and protozoa, International workshop on 'Recent Trends in Environmental Science', National Environmental Science Academy, New Delhi, Apr. 24-26, 2004.
2. Tharavathy N.C., A study of ground water quality of Konaje, Mangalore (D.K.), International conference on 'Future Challenges to Environmental Scientists on Issues of Energy, Water and Human health', National Environmental Science Academy, New Delhi, Aug. 23-25, 2007.

3. Tharavathy N.C., A study on Solid Waste Quality in Mangalore (D.K.), International Conference on 'Bioremediation and Environmental Management & Polar Science and Technology', Presidency College, Bangalore, Dec. 28-29, 2011.
4. Tharavathy N.C., Water Quality Management in Shrimp Culture, International Conference on 'Biodiversity, Bioremediation and Biotechnology', Dept. of Botany, Karnatak University, Dharwad, Jan. 30-31, 2014.
5. Tharavathy N.C., Basic Facilities of Tourism Industry on Economic Growth of India (Since 2001-2013), International Conference on "Community Empowerment in Changing World: Issues & Challenges, University of Mysore, Mysore, Feb. 27-28, 2015.

National

1. Tharavathy N.C., Experimental laboratory oxidation ponds for assessing copper toxicity on algae and protozoa, National Seminar on 'Zoology for 21st Century', Goa University, Dec. 7-9, 2000.
2. Tharavathy N.C., Experimental laboratory stabilization ponds for assessing cadmium toxicity to algae and protozoa, National Symposium on 'Problems and Prospects of Environment in the New Millennium', Dept. of Biosciences, Mangalore University, Dec. 14-16, 2000.
3. Tharavathy N.C., Impact of monocrotophos (Luphos) on the biodiversity of algae and protozoa, National Conference on 'Urban Environment – Present Scenario and Future Strategies', Dept. of Environmental Science, Bangalore University, Dec. 27-29, 2008.
4. Tharavathy N.C., Role of Women in Environmental Conservation, National conference on 'Women and Development, Centre for Women and Studies', Mangalore University, Mar. 21-22, 2012.
5. Tharavathy N.C., Impact of Developmental Activities on Social Environment, National Seminar on 'Impact of Developmental Activities on Indigenous Environment', Dept. of Sociology, Mar. 30-31, 2012.
6. Tharavathy N.C., Impact of Iron on the Biodiversity of Algae and Protozoa, National Seminar on 'Coastal Environments and their Management', Dept. of Marine Geology, Mangalore University, Jan. 22-23, 2013.
7. Tharavathy N.C., Oxidation Pond – A Tool for Wastewater Treatment, National Symposium on 'Innovations in Science and Technology for Inclusive Development', Dept. of Studies in Zoology, University of Mysore, Mysore, Jan. 3-4, 2014.
8. Tharavathy N.C., Effect of Scientific Developments on Social Environment, National Conference on 'Social Exclusions and Inclusive Growth: Challenges and Strategies', Dept. of Social Work, Mangalore University, Feb. 6-7, 2014.

9. Tharavathy N.C., Studies on the occurrence of hydrophytes in relation to water parameters in fresh water ecosystems in Dakshina Kannada, National conference on 'Reaching the unreached through Science and Technology', Mangalore University, Mangalore in association with the Indian Science Congress Association, Bangalore Chapter, Dec. 8-9, 2017.
10. Tharavathy N.C., Mitigation measures to the air pollution in Kabul city, Afghanistan, National Conference on 'AI and Education 5.0 – Future of Education system in India' V.E.T. First Grade College, Bengaluru, Nov. 5, 2024.

Regional

1. Tharavathy N.C., Hospital Waste Management in Mangalore City, 6th Kannada Vijnana Sammelana, Karnataka Science Congress, Veterinary College, Hebbala, Bangalore, Sept. 15-17, 2010.
2. Tharavathy N.C., Impact of Manganese on the Biodiversity of Algae and Protozoa, 6th Annual KSTA Conference-2013, Christ (Deemed to be) University, Bangalore, Dec. 20-21, 2013.
3. Tharavathy N.C., Seasonal variation in the physico-chemical properties of the coastal water at Panambur beach, Mangaluru, Karnataka, 16th Kannada Vijnana Sammelana, Karnataka Science Congress, Mangalore University, Sept. 15-17, 2021.

Invited / plenary talks delivered (list) (if applicable)

1. Tharavathy N.C., delivered a talk on "Hotspots of Biodiversity: Causes and Consequences" in the Lecture Series conducted by the Sanjeevini Association, Department of Applied Botany, Mangalore University on 17th February 2024.

Impact of publications in terms of (if available)

h-index - 4

i10 index - 2

Citation index - 70

Conferences / Seminars / Workshops / Symposia organized (if applicable)

1. Dr. Tharavathy N.C., Co-convenor, UGC-SAP Sponsored National Seminar on Pollution and Bioremediation – Current Scenario and Future Prospects (NS-PBCSFP: 2020) held on 7th March 2020 at Mangala Auditorium, Mangalagangothri, Mangalore.

Awards / Fellowship / Recognition (Specify) (if applicable)

1. 'Best Women Scientist Award' received from Karnataka Science Congress in the year 2010.

FDPs/ Professional Development programs (PDPs)/ Refresher Course/ Orientation Course/ Faculty Induction program (FIPs)/ Workshops/ Seminars/ Conferences attended

Refresher Course/ Orientation Courses

1. UGC sponsored Refresher Course in Life science including Environmental Science from June 12th to July 3rd 2000 at Kuvempu University, Shimoga.
2. UGC sponsored Orientation Programme from July 3rd to 30th 2001 at Academic Staff College, University of Mysore.
3. UGC sponsored Refresher Course in Environmental Science from 2nd to 22nd December 2004 at Kuvempu University, Shimoga.
4. UGC sponsored Interdisciplinary Refresher Course in Environmental Science from 9th to 29th January 2007 at Karnatak University, Dharwad.

Professional Development programs

1. Saksham – IT Champion Training Program held in Cyber Lab., University Library organized by University Industry Interaction Centre, Mangalore University from 9th to 14th February 2015.
2. Online Training Course on ‘Water Audit and Conservation in Industries’ organised by the Centre for Science and Environment (CSE), New Delhi from November 23 to December 6, 2020.
3. Professional Development Programme on “Revised Accreditation Framework of NAAC” from 12th to 16th July 2022 organized by the Internal Quality Assurance Cell (IQAC), Mangalore University, Mangalagangothri.

Workshops/ Seminars/ Conferences attended

1. Workshop on Instructional Standards, Staff Development College, Mangalore University, Jan. 2-3, 1998.
2. Frontier Lectures in Modern Biology, Dept. of Biosciences, Mangalore University, Dec. 15-17, 1999.
3. National Seminar on Biodiversity and Water Resources Management and Development, Pilikula Nisarga Dhama and Dept. of Applied Botany, Mangalore University, Feb. 14-15, 2004.
4. Seminar Cum Workshop on Cultivation of Biodiesel Plants - Energy Security, Wasteland Management and Mitigation of Climate Change, Dept. of Biosciences, Mangalore University, Mar. 31, 2009.
5. Seminar on Global Warming - Present and Future Scenario, Dept. of Biosciences, Mangalore University, Mar. 18, 2010.
6. One day state level Seminar on Present Indian Agriculture – Problems & Remedies, Dept. of Economics, JSS College of Arts, Commerce and Science, Mysore, Sept. 18, 2010.

7. Workshop on Access to E-Resources under UGC INFONET Developmental Library Consortium, Mangalore University, Oct. 23-24, 2010.
8. Workshop on Community Participation in Biodiversity Conservation, Dept. of Biosciences, Mangalore University, Apr. 12, 2011.
9. 4th Conference of Karnataka Science and Technology Academy, Mangalore University, Jan. 28-29, 2012.
10. International Peace Conference – VII, University of Mysore, Mysore, Aug. 6, 2014.
11. 4th National Pre-Conference Workshop of SOBSICON 2014 on Recent Advances in Research Methodologies in Biological Sciences, Dept. of Studies and Research in Biochemistry, Mangalore University, Nov. 17, 2014.
12. One day user awareness programme on Shodhganga & Antiplagiarism software iThenticate/Turnitin, Mangalore University Library, Feb. 12, 2015.
13. Lecture on Emerging Solar PV Technology applications for Academics organized by Kwatt Solutions Pvt. Ltd., IIT, Bombay, Dec. 03, 2016.
14. National Seminar ‘Lab to Clinic: Approaches and challenges in drug discovery, design and delivery organized by Department of Biosciences, Mangalore University on 23-24 Feb. 2018.
15. Capacity Building Workshop organized by Karnataka State Higher Education Council (KSHEC), Bengaluru in association with Rashtriya Uchchatar Shiksha Abhiyana (RUSA), MHRD and Mangalore University on 18th May 2019.
16. National Assessment and Accreditation Awareness (NAAC) Workshop held at Mangalore University on 30th May 2019.
17. UGC-Sponsored National Seminar on Pollution and Bioremediation-Current Scenario and Future Prospects (NS-PBCSFP: 2020) organized in the Department of Biosciences, Mangalore University on 07th March 2020.
18. National Webinar on ‘Diversity of Floristic Wealth of Karnataka’ organized by the Department of Botany, Internal Quality Assurance Cell (IQAC), Sri Bhuvanendra College, Karkala and Pilikula Regional Science Centre (PRSC), Mangaluru on 30th January 2021.
19. Webinar on ‘Program Design Concepts based on OBE–Criteria 1 of NAAC’ organized by InPods Ed-tech on 22nd April 2021.
20. Workshop on ‘National Education Policy - 2020’ organized by College Development Council, Mangalore University on 30th August 2021.
21. Webinar on “How to Read Scientific Literature?” and successfully completed the Online Evaluation organized by Manav-Human Atlas Initiative, Holistic representation of human body on November 2021 .
22. Conference on ‘Strategies for Betterment of Higher Education and Governance of Universities’ organized by Mangalore University and Forum of Former Vice

Chancellors of Karnataka State Universities (FVCK) held at Mangalore University on 30th May 2022.

23. National level workshop on “Good Laboratory Practices, Scientific Integrity and ISO Certification” organized by Department of Biochemistry, Mangalore University on 19th July 2022.

24. Two days National Workshop on “Animal Diversity and Conservation” organized by the Department of Applied Zoology, Mangalore University on 15-16, December 2022.

25. Aquatica webinar on ‘Ocean Conservation’ organized by Ocean Ally Foundation on 25th June 2024.

Membership of Professional Bodies

1. Life Member of National Environmental Science Academy, New Delhi
2. Editorial Board Member of Asian Journal of Environmental Science

Open Educational Resources (OER) / Online Content / MOOCs curated (if applicable)

Any other Information

1. Chairperson, Department of Biosciences, Mangalore University.
 2. Coordinator, M Sc Environmental Science Programme, Mangalore University.
 3. Nodal Officer, ‘World Environment Day’, Mangalore University.
 4. BOE Chairperson, M Sc Biosciences Programme, Mangalore University.
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