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**Dr. Pushpa Tuppad**  
Professor and Dean – Academics  
Department of Environmental Engineering  
JSS Science and Technology University  
Mysuru - 06



**Institution**

JSS Science and Technology University  
JSS Technical Institutions Campus  
Mysuru – 570 006

**Residence**

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**Educational Details**

**Ph.D.** (Biological and Agricultural Engineering), Kansas State University, USA; summer 2006; 96.5%

Research area: Watershed protection, water quality modeling, GIS and Remote sensing, uncertainty due to spatial rainfall variability, NEXRAD radar precipitation

**Graduate Certificate**

“Graduate Certificate in GIScience”, Dept. of Geography, Kansas State University, Manhattan, KS; 2006

**M. Tech.** (Industrial Pollution Control - Chemical Engineering), Karnataka Regional Engineering College, University of Mangalore, India; 2001; 76.15%

Research area: GIS aided zonal atlas for locating polluting industries

**B. E.** (Environmental Engineering), Sri Jayachamarajendra College of Engineering, University of Mysore, India; 1997; 81.47%

Emphasis area: Environmental impact assessment, water/wastewater treatment

**PUC II (PCMB)**, JSS Womens’ College, Mysuru, 1993; 86.2%

**SSLC**, Lions High School, Kollegal, Mysuru District, 1991; 79.5%

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## **Positions Held/Professional Experience**

- **Dean – Academic (i/c)**, JSSSTU; June 7<sup>th</sup> 2025 – present
- **Associate Dean – Academic (UG program)**, JSS Science and Technology University (<https://jssstuniv.in/>), Mysuru, Karnataka, India, May 2024 – June 6<sup>th</sup> 2025
- **Professor**, Dept. of Environmental Engineering, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University (<https://jssstuniv.in/>), Mysuru, Karnataka, India, May 2023 – present
- **Associate Professor**, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India, Sep 2011 – May 2023
- **Assistant Research Scientist**, Blackland Research and Extension Center (BREC), Texas AgriLife Research, Texas A&M System, Temple, TX, Sep 09 – Sep 11
- **Postdoctoral Research Associate**, BREC, Texas AgriLife Research, Temple, TX, Jun 06 – Aug 09
- **Graduate Research Assistant**, Dept. of Biological and Agricultural Engineering, Kansas State University, Jun 02 – Jun 06
- **Junior Project Fellow**, National Environmental Engineering Research Institute, Council of Scientific and Industrial Research, India, Jul 98 – Jul 99
- **Project Fellow**, JSS Consultants, Mysore, India, Jan – May 98

## **Areas of Interest**

Water Resources Engineering, Hydrology, Applications of Remote Sensing and GIS in Soil and Water Conservation, Watershed hydrology/Water Quality Modeling, Water and Wastewater Treatment, Environmental Impact Assessment.

## **Honors, Awards, and Recognitions (in reverse chronology)**

1. Subject expert for the selection of faculty members to the Department of Civil Engineering, SIT, Tumkur May 2025
2. Reviewer – International Conference on Sustainable Technologies (ICST-2025)
3. Recipient of ‘Green Award’, presented by Design Spring Business in ‘Eco-friendly Meet and Greet’ event, held on February 8th, 2025 at hotel Savera, Mylapore, Chennai, Tamil Nadu.
4. Member – BoS member, Environmental Science, Yuvaraja College, Mysuru
5. NPTEL Discipline Star (Civil Engineering) – Jan-Apr 2024
6. Program leader – Centre Operations Group – ‘Training’ of Australia-India Water Center.
7. Dr. Pushpa Tuppad, Ms. Shravana S Narasannavar, 2022, “Biodegradation of Plastic using Greater Wax Moth (*Galleria Melonella*)”, funded by KSCST 45th series of Student Project Programme (SPP): 2021-22, Sanctioned amount: Rs. 7,000.0. This project is awarded ‘Best Project of the Year’ during the Seminar and Exhibition held at Visvesvaraya Technological University (VTU), Belagavi on 12th and 13th August 2022.

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8. Supervisor (along with one other supervisor from Western Sydney University, Australia) to the project by water professionals under Young Water Professionals (YWP) program initiated and organized by AIWC (Australia-India Water Center).
  9. Review Editor – Pantnagar Journal of Research, G B Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
  10. Member, Board of Studies – Dept. of Environmental Science, Yuvaraja College, Mysuru
  11. Expert committee member – to develop model curriculum for M.Sc. in GIS (Geoinformatics)
  12. ASABE Honorable Mention Paper Award 2011 for “Tuppad, P., K.R. Douglas-Mankin, J.K. Koelliker, and J.M.S. Hutchinson. 2010. SWAT model response to spatial rainfall variability. *Transactions of the American Society of Agricultural and Biological Engineers* 53(1):65-74.”
  13. ‘Young Engineer of the Year – 2010’, awarded by the American Society of Agricultural and Biological Engineers (ASABE) Texas Chapter.
  14. NSF grant to participate in the ‘Faculty Horizons - NSF ADVANCE Workshop for aspiring STEM Faculty’, University of Maryland, Baltimore County, Baltimore, 2006.
  15. ‘Graduate Student of the Year’ award by Dept. of Biological & Agricultural Engineering, KSU, 2006.
  16. Ranked #4 in a batch of 42 students in overall academic score in undergraduate degree program, 1997.

### **Publications (in reverse chronology)**

1. Deepthi B P, Pushpa Tuppad, and Lokesh K S. 2026. “Investigation of BMPs to Control Sediment Erosion and Nutrient Loss Using SWAT Model”, *International Journal of Hydrology Science and Technology*, 21(1), DOI: 10.1504/IJHST.2025.10072454, SJR 2024: 0.297; Q3; H-Index 20.
2. Ramya S, Srinath S, Pushpa Tuppad, V Chandan. 2025. An attention infused multi-stage parallel adaptive neuro fuzzy systems framework with metaheuristic optimization for accurate water quality prediction. *Discover Artificial Intelligence*, 5: 359; ISSN: 27310809, <https://doi.org/10.1007/s44163-025-00624-y>, SJR: 0.876, H-Index: 15, Impact Factor: 4.5. Publisher: Springer Nature [Q1]
3. Sahana Mahesh, Krishna Benamanahalli Motaiah, Mahesh Shivaswamy, Vikram Kumar Jain Shanthilal, Pushpa Tuppad, P. C. Srinivas. 2025. Electrochemical coagulation of raw dental wastewaters using copper electrodes, *Brazilian Journal of Chemical Engineering*, April 2025; <https://doi.org/10.1007/s43153-025-00556-1>, SJR (2024): 0.367, Q3, IF (2023): 1.5 ISSN 01046632, Indexed in Scopus. Volume 20(2)
4. Ramya S, Srinath S, Pushpa Tuppad. 2025. Advanced temporal deep learning framework for enhanced predictive modeling in industrial treatment systems. *Results in Engineering*, Volume 25, March 2025, 104158; Online ISSN: 2590-1230, <https://doi.org/10.1016/j.rineng.2025.104158>, SJR: 0.794, Q1, IF: 6.0; Publishes Elsevier
5. Ramya, Srinath S., Pushpa Tuppad. 2024. Hybrid modeling techniques for predicting chemical oxygen demand in wastewater treatment: a stacking ensemble learning approach with neural networks. *Environmental Monitoring and Assessment* 196, 1259. <https://doi.org/10.1007/s10661-024-13390-8> (Q2) IF: 2.9

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6. Ramya, Srinath S., Pushpa Tuppad. 2024. Comprehensive Analysis of Multiple Classifiers for Enhanced River Water Quality Monitoring with explainable AI. Case Studies in Chemical and Environmental Engineering, Vol. 10: <https://doi.org/10.1016/j.cscee.2024.100822> (Q1) IF: 9.2
  7. Issac, A. M., Harshitha, M. S., Lakshmi, T. V., Hagare, D., Maheshwari, B., Reynolds, J. K., Rao, L., **Tuppad, P.**, Prasad, S., Ynag, S., & Sivakumar, M. (2023). Geospatial data and web based tools for managing irrigation infrastructure expansion projects. World Water Policy, 1–16. <https://doi.org/10.1002/wwp2.12130>. (Q3)
  8. Deepthi B P, Pushpa Tuppad and K S Lokesh. 2023. Sensitivity Analysis and Multi-Site Calibration of KRS Catchment using SWAT. International Journal of Scientific Research in Engineering and Management, Vol. 07(04) | April - 2023 Impact Factor: 8.176 ISSN: 2582-3930 © 2023, DOI: 10.55041/IJSREM18992
  9. B P Deepthi, **Pushpa Tuppad** and K S Lokesh. 2022. Impact analysis of landuse/landcover change on hydrologic regime of Upper Cauvery basin. Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban)/ Journal of Tianjin University Science and Technology, Vol. 55(06): 36-49, ISSN (Online): 0493-2137 E-Publication: Online Open DOI 10.17605/OSF.IO/Y6F82
  10. B P Deepthi, **Pushpa Tuppad** and K S Lokesh. 2021. Estimation of Hydrologic Simulation in Upstream of KRS Reservoir using SWAT Model. IOP Conf. Ser.: Earth and Environmental Science 822: 012031. Online ISSN: 1755-1315, Print ISSN: 1755-1307
  11. Renukumar K. S., **Pushpa Tuppad**. Anjaneyappa. 2021. Enhancing Non-Revenue Water Reduction by Incorporating Service Level Benchmarks and Best Practices. Journal of IWWA, Vol. 3 (4): 279-286.
  12. Prajnya V. H., **Pushpa Tuppad**. 2016. Study of Hydrologic Response of Kabini Basin Using Soil and Water Assessment Tool (SWAT). International Journal of Engineering Science and Computing, 6(8): 2373-2380. Impact factor: 5.611
  13. Renukumar K. S., **Pushpa Tuppad**. 2016. Improving water economics by reducing unaccounted-for-water in water distribution network through leakage control. Journal of Indian Water works Association, July-Sept 2016: 193-201.
  14. C. Hegde Nayana, **Tuppad Pushpa**. 2016. Nano Zero-valent Iron for the Removal of Color and Chemical Oxygen Demand of Textile Effluent. Indian Journal of Advances in Chemical Science, S1: 236-238.
  15. Lee, T, Xiuying Wang, Michael White, **Pushpa Tuppad**, Raghavan Srinivasan, Balaji Narasimhan, and Darrel Andrews. 2015. Modeling Water-Quality Loads to the Reservoirs of the Upper Trinity River Basin, Texas, USA. *Water*, 7, 5689-5704; doi:10.3390/w7105689. Impact factor: 1.428.
  16. Deb, D.; **Tuppad, P.**; Daggupati, P.; Srinivasan, R.; Varma, D. 2015. Spatio-Temporal Impacts of Biofuel Production and Climate Variability on Water Quantity and Quality in Upper Mississippi River Basin. *Water*, 7: 3283-3305. Impact factor: 1.428.
  17. T. Johnson, J. Butcher, D. Deb, M. Faizullahoy, P. Hummel, J. Kittle, S. McGinnis, L.O. Mearns, D. Nover, A. Parker, S. Sarkar, R. Srinivasan, **P. Tuppad**, M. Warren, C. Weaver, and J. Witt. 2015. Streamflow and Water Quality Sensitivity to Climate Change and Urban Development in 20 U.S. Watersheds. Journal of the American Water Resources Association (JAWRA) 1-21. DOI: 10.1111/1752-1688.12308. Impact factor: 1.348.

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18. Renukumar K. S., **Pushpa Tuppada**. 2014. Water Audit in Distribution Network by Establishing District Metered Area (DMA) - A Necessity in Assessing Real Losses Component of Non-revenue Water (NRW). *International Journal of Civil Engineering and Technology*, 5(9): 01-08. Impact factor (2014): 7.9290.
  19. Sahana B., **Pushpa Tuppada**, B. Manoj Kumar and K. P. Jayaramu. 2014. Sediment Control at the Source for a Bulk Water Supply Scheme in Mysore, India. *International Journal of Civil Engineering and Technology*, 5(9): 49-56. Impact factor (2014): 7.9290.
  20. T. S. Mamatha, M. R. Nandini, T. N. Parinitha, S. Umesha, Rizbin Mehra, **Pushpa Tuppada**, B. Manoj Kumar and B. M. Krishna. 2013. Water Quality Monitoring and Trophic status classification of Karanji Lake, Mysore. *International Journal of Current Engineering and Technology*, 43-48. Impact factor: 2.552.
  21. Wang, X., White, M., **Tuppada, P.**, Lee, T., Srinivasan, R., Zhai, T., Andrews, D., Narasimhan, B. 2013. Simulating sediment loading into the major reservoirs in Trinity River Basin. *Journal of Soil and Water Conservation* 68 (5): 372 – 383. Impact factor: 1.811.
  22. **Tuppada, P.**, K. R. Douglas-Mankin, T. Lee, R. Srinivasan, and J. G. Arnold. 2011. Soil and water assessment tool (SWAT) Hydrologic/Water Quality model: Extended capabilities and wider adoption. *Transactions of the ASABE* 54(5): 1677-1684. Impact factor: 1.033.
  23. Douglas-Mankin, K. R., D. Maski, K. A. Janssen, **P. Tuppada**, G. M. Pierzynski. 2010. Modeling Nutrient Runoff Yields from Combined In-Field Crop Management Practices Using SWAT- *Transactions of the American Society of Agricultural and Biological Engineers*, 53(5): 1557-1568. Impact factor: 1.033.
  24. **Pushpa Tuppada**, C. Santhi, and R. Srinivasan. 2010. Assessing BMP effectiveness: Trend analysis of observed water quality data. *Environmental Monitoring and Assessment*, 170(1-4): 315-329; DOI 10.1007/s10661-009-1235-8. Impact factor: 1.633.
  25. **Tuppada, P.**, K.R. Douglas-Mankin, J.K. Koelliker, and J.M.S. Hutchinson. 2010. SWAT discharge response to spatial rainfall variability. *Transactions of the American Society of Agricultural and Biological Engineers* 53(1):65-74.
  26. **Pushpa Tuppada**, Kyle R. Mankin, James. K. Koelliker, J. M. Shawn Hutchinson, Mary C. Knapp. 2010. NEXRAD Stage III Precipitation Local Bias Adjustment for Streamflow Prediction. *Transactions of the American Society of Agricultural and Biological Engineers*, 53(5): 1511-1520.
  27. **Pushpa Tuppada**, Narayanan Kannan, Raghavan Srinivasan, Colleen G. Rossi, and Jeffery G. Arnold. 2010. Simulation of agricultural management alternatives for watershed protection. *Water Resources Management*, 24(12): 3115-3144; DOI 10.1007/s11269-010-9598-8.
  28. **Pushpa Tuppada**, Kyle R. Mankin, Kent A. McVay. 2010. Strategic targeting of cropland management using watershed modeling. *International Commission of agricultural and Biosystems Engineering (CIGR)*, 12(3): 1-19.
  29. **Pushpa Tuppada**, Michael Winchell, R. Srinivasan, and Jimmy R. Williams. 2009. ArcAPEX: ArcGIS interface for Agricultural Policy Environmental eXtender (APEX) hydrology/water quality model. *International Agricultural Engineering Journal*, 18(1-2): 59-71.
  30. **Pushpa Tuppada**, C. Santhi, J. R. Williams, R. Srinivasan, X. Wang, and P. H. Gowda. 2009. Simulation of conservation practices using APEX model. *Applied Engineering in Agriculture*, 26(5): 779-794.

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31. Maski, D, K. R. Mankin, K. A. Janssen, **P. Tuppad**, and G. M. Pierzynski. 2008. Modeling runoff and sediment yields from combined in-field crop practices using SWAT. *Journal of Soil and Water Conservation*, 63(4): 193-203.
  32. C. Santhi, P. M. Allen, R.S. Muttiah, J. G. Arnold, and **P. Tuppad**. 2008. Regional estimation of base flow for the conterminous United States by hydrologic landscape regions. *Journal of Hydrology*, 351: 139-153.
  33. D. Maski., C. D. Durairaj, and **T. Pushpa**. 2004. Characterization of spray liquids for electrostatic charging. *Institution of Engineers (India)-Agril. Engineering*, 84, June: 33-36.

### **Book chapters**

1. Wang, X., **P. Tuppad**, J.R. Williams. 2015. Combining landscape segmentation and agroecosystem simulation model. Pp 221-243. In *GIS Applications in Agriculture, Volume Four: Conservation Planning*, eds. T.G. Mueller, and G.F. Sassenrath, Chapter 13. Taylor and Frances Group, Boca Raton, FL.
2. Wang, X., **P. Tuppad**, J.R. Williams. 2011. "Modeling agricultural management systems with APEX". pp 117-136. In *Soil Hydrology, Land Use and Agriculture: Measurement and Modelling*. Shukla, M.K.(ed.) CABI Press, UK.
3. Tuppad, P., Gowda, S.S., Srivatsa, N., Rakshitha, H.D., Apoorva, M., Rakshitha, N.Y. (2025). From Trash to Treasure: The Rise of Plastic Construction. In: Suriyanarayanan, S., H. P., S., Pakeerathan, K. (eds) Combating Plastic Pollution in Terrestrial Environment. Springer, Singapore. ISBN 978-981-96-2342-6; ISBN 978-981-2343-3 (ebook), Pp.251-270, [https://doi.org/10.1007/978-981-96-2343-3\\_13](https://doi.org/10.1007/978-981-96-2343-3_13)

### **Conference/Technical Presentations (Selected) (in reverse chronology)**

1. Mr. Prejilesh T P, Pushpa Tuppad, Sadashivamurthy B M, Dharma Hagare, Basant Maheshwari, 2026, Modular Hybrid STP: A Sustainable Solution for Decentralized Urban Wastewater Management, AIWC@5 (Australia India Water Centre 5th Anniversary) Partners Forum and International Symposium, 17th to 19th November 2025, Western Sydney University, Parramatta Campus, Sydney, Australia.
2. Mr. Karishma K, Pushpa Tuppad, Shreelatha H R, Aishwarya M, Nanditha U, Nishmitha K S, Varsha G Kori. 2026, Optimisation of Water Distribution Network in T. Narasipura, Karnataka: A Hydraulic Modelling Approach Using Water GEMS for Sustainable and Reliable Supply, AIWC@5 (Australia India Water Centre 5th Anniversary) Partners Forum and International Symposium, 17th to 19th November 2025, Western Sydney University, Parramatta Campus, Sydney, Australia.
3. Ramya S., Srinath S., **Pushpa Tuppad**. 2024. Enhanced Wastewater Parameter Prediction using Comprehensive Regression Framework: Leveraging Feature Engineering and Hyperparameter Optimization with Machine Learning, 7th International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2024), Bhopal, India held during 19th to 20th December 2024
4. Ramya S., Srinath S., **Pushpa Tuppad**. 2024. Performance Evaluation of Ensemble Learning Techniques for Prediction, presented in the 3rd IEEE International Conference on Computer

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Vision and Machine Intelligence 2024 organized by Indian Institute of Information Technology Allahabad, Prayagraj, UP, India held during 19-20 October 2024.

5. **Pushpa Tuppad**, Chandrashekar B, Karishma K, Sara Ayachit, Anjali K, Thejaswini RS, Ananya D, Indra Kumar MV, Sai Chirag MN, Sanjana J, Mithun Khola U, Preetham R, Prajwal. Public Perception on Intermittent V/S Continuous Water Supply Systems and Quantification of Intangible Benefits. In Proceedings of ‘56th IWWA Annual Convention’, 19th to 21st January, 2024, Coimbatore.
6. Deepthi B P, **Pushpa Tuppad**, and Lokesh K S. 2023. Hydrological Processes, rainfall-runoff and effectiveness of land management strategies modeling of upper Cauvery river basin. In National Conference on Cauvery: NATURE PRESENTS AND MAN DISPUTES (NC-CNPAMD), organized by Prof. B. Shivalingaiah Felicitation Committee and Mandavya Group of Institutions (SBET), on 6 December 2023 at Dr. B.R. Ambedkar Bhavana, Mandya, Karnataka, India.
7. Srivatsa N, Rakshitha HD, Apoorva M, Rakshitha NY, **Pushpa Tuppad**. 2023. Plastic Waste Reuse as Construction Materials. Paper presented in International Workshop on ‘Combating Plastic Pollution in Terrestrial Environment’ during March 14-15, 2023 at JSS AHER, Mysuru, India.
8. Smrithi D, Reshma L G, Amulya G L, **Pushpa Tuppad**, Chandrashekar B. 2023. Nano Coated Electrodes for the Treatment of Landfill Leachate. Paper presented (oral) in International Conference and Advanced Materials for Health, Energy and Environment, Feb 28th to Mar 2nd, 2023, JSSSTU, Mysuru. Abstract published.
9. K.S. Renukumar, **Pushpa Tuppad**, and Anjaneyappa. Economic sustainability of Non-Revenue Water Reduction Program: A Case study in Bengaluru, India. To be presented in International e-Conference on Water Source Sustainability, Organized by Indian Water Resources Society (IWRS) and Department of Water Resources Development & Management, held on June 18-20, 2021.
10. Deepthi B P, **Pushpa Tuppad** and K S Lokesh. Evaluating the Impacts of Landuse/Landcover changes on Hydrologic components of Harangi and Hemavathi Watersheds using SWAT model. To be presented in International e-Conference on Water Source Sustainability, Organized by Indian Water Resources Society (IWRS) and Department of Water Resources Development & Management, held from June 18-20, 2021.
11. Supriya H. S. **Pushpa Tuppad**. Prediction of flood prone areas downstream of Supa Dam using simulation model and GIS. Presented in the International online e-Conference on Ecosystem Restoration for Resilience and Sustainability: Living with Nature, organized by Indian Institute of Technology, Indore and National Institute of Disaster Management Ministry of Home Affairs, Govt. of India, held from 5th to 7th June 2021.
12. Deepthi B. P., **Pushpa Tuppad**, K. S. Lokesh. Estimation of Hydrologic Simulation of upstream of KRS reservoir using SWAT model. International Conference on Contemporary and Sustainable Infrastructure (ICCSI-2021), organized by Dept. of Civil Engineering, S J B Institute of Technology, Bengaluru in association with Technical Institute for Engineers (TIE), Bengaluru on 21st and 22nd May 2021.
13. Deepthi B. P., **Pushpa Tuppad**, K. S. Lokesh. Hydrologic simulation of Upper Cauvery basin. Second International conference on Advanced Material and Technology (ICMAT-20), organized by JSSSTU, Mysuru – 006, 16th to 18th January 2020.

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14. Srilakshmi T. N. and **Pushpa Tuppad**. Drought index computation using Standardized Precipitation Index (SPI) for Karnataka. Second International conference on Advanced Material and Technology (ICMAT-20), organized by JSSSTU, Mysuru – 006, 16th to 18th January 2020.
  15. Nisha K.S, Thanushree S, **Pushpa Tuppad**, Manoj Kumar B and Anusha N. Nutrient Removal from Domestic Wastewater using Sequencing Batch Reactor International Conference On “Impact Of Global Atmospheric Changes On Natural Resources (IGACNR)” Scheduled on 19th-20th, November 2018 at Jnanabharathi Campus, Bangalore University, Bengaluru-560056.
  16. Jagadisha N, A D. Srinivasan, Vagdevi S, **Pushpa Tuppad**. 2017. Experimental study on Decomposition of benzene and toluene using Dielectric barrier discharge plasma technique, in International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT – 2017) in association with IEEE, Bangalore Section organized by GSSS Institute of Engineering and Technology for Women, Mysuru on 15th and 16th December 2017.
  17. Renukumar K. S., **Pushpa Tuppad**. 2014. Reducing Unaccounted For Water (UFW) in Water Distribution, A Necessity in Integrated Water Management – A Case Study of Vidyanagar in South Bangalore. Oral presentation. Paper published In Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014, NITK, Surathkal, India, 19-20 May 2014.
  18. Sujith S., **Pushpa Tuppad**, Sampath K. 2014. Efficient Management of Urban Solid Waste Pollution in Gulbarga City. Oral presentation. Paper published In Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014, NITK, Surathkal, India, 19-20 May 2014.
  19. Sujith S., **Pushpa Tuppad**. 2014. Sustainable Waste Management System for Gulbarga. Oral presentation. Paper published In Proceedings of the International Conference on Waste Management for Sustainable Development (ICWMSD 2014), organized by Department of Civil Engineering, NSS College of Engineering (NSSCE), Palakkad – 678008, Kerala, India, 21 – 23 March 2014.
  20. Mamatha T. S., Nandini M. R., Parinitha T. Niranjana, Umesha S., Rizbin Mehra, **Pushpa Tuppad**, B. M. Krishna, B. Manoj Kumar. Study on Water Quality Monitoring and Trophic Status of Karanji Lake, Mysore. National Conference on Women in Science and Engineering 2013 (NCWSE2013), 5<sup>th</sup> and 6<sup>th</sup> July 2013, SDM College of Engineering and Technology, Dharwad. Karnataka
  21. **Pushpa Tuppad**, Raghavan Srinivasan, Deepa Varma, and Debjani Deb. 2012. Water footprint analysis of biofuel feedstock using SWAT model. (Oral) Presented in 2012 *International SWAT Conference*, Delhi, India, July 18-20, 2012.
  22. Pushpa Tuppad, Taesoo Lee, R. Srinivasan, John Kretzschmar. Delineation of irrigated-croplands using MODIS imageries. National Seminar on “**Geospatial and Ecological Mapping of Biodiversity – Tools and Techniques, 2012**” organized by the department of Studies in Earth Science, University of Mysore, Manasagangotri, Mysore; 30<sup>th</sup> and 31<sup>st</sup>, May, 2012.

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### **Workshop/Finishing school/Special Courses Conducted (in reverse chronology)**

1. Co-coordinator – 2-day Workshop on “Opportunities in Environment, Health and Safety (EHS) for Engineering Graduates”, held on 29th and 30th November 2024; Sanctioned amount: Rs. 44,000/-
2. Co-coordinator – 2-day Faculty Development Program on “IP Ecosystem in Academics – perspectives and impact”, funded by KSCST, held on 17th and 18th October 2023
3. Co-coordinator - one-day symposium on ‘Environmental Engineers – Opportunities, Roles and Responsibilities for a Sustainable Environment’, funded by KSTA Small Grants Scheme, Sanctioned amount: Rs. 15,000/-
4. Co-coordinator – 2-day workshop on “Water Conclave – for a better future”, an initiative towards Australia India Water Center, organized by the Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru, held on 15th and 16th March, 2021.
5. Coordinator – webinar on “Quality and EHS’ in industries”, in the Department of Environmental Engineering, SJCE, sponsored by TEQIP-III on 13-Aug-2020.
6. Co-Coordinator – TEQIP-II Initiative 2-day Indo-US workshop on “Hazardous Materials Management and Safety in Industries”, organized by the Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysuru from 14th – 15th February, 2020.
7. Coordinator - Debate Competition held on 16th October 2017 on the topic “Corruption has become hindrance in growth of the Country”, co-organized by SJCE and BEML Ltd., Mysuru Complex, Mysuru.
8. Co-Coordinator – TEQIP-II Initiative 3-day Indo-US workshop on ‘Hazardous Materials Management’, organized by the Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysuru from 25th to 27th October, 2016.
9. Coordinator – MHRD sponsored GIAN course on “Spatial Technology and Modeling for Drought Management”, organized by the Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysuru from July 11<sup>th</sup> to 22<sup>nd</sup>, 2016.
10. Co-Coordinator – Finishing School on “Environmental Auditing and EHS”, conducted during January to April 2016 at Sri Jayachamarajendra College of Engineering, Mysuru
11. Co-Organizing secretary - TEQIP sponsored 2-Day Workshop on “GIS and Modelling – Applications in Environmental Engineering” held on 28th and 29th March, 2014 at SJCE, Mysore.

### **Training/Workshops Attended**

1. Nuclear Energy – Environment and Safety (NEEDS -2012); jointly organized by Indian Nuclear Society, Mysore and Department of studies in Physics, University of Mysore on 3rd March, 2012 at DOS in Physics, University of Mysore, Manasagangothri, Mysore

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2. Faculty Development Workshop on Achieving Excellence in Teaching Skills and Values, jointly organized by P.E.S. College of Engineering (PESCE), Mandya and The Institution of Engineers (India) Mysore center on 28th April, 2012 at PESCE, Mandya.
  3. National Seminar on “Geospatial and Ecological Mapping of Biodiversity – Tools and Techniques, 2012” organized by the department of Studies in Earth Science, University of Mysore, Manasagangotri, Mysore; 30th and 31st, May, 2012.
  4. Faculty Development Programme on “Emerging Contaminants - Analysis, Fate, Treatment and Modelling” organized by the Department of Civil Engineering, National Institute of Technology, Calicut, Kozikode, Kerala, India: July 9th to 13th, 2012.
  5. 3rd state level science and technology conference – 2012 “Role of Science and Technology in Rural Development” organized jointly by KSCST, VGS&T, DST\_GOK, and SJCE held on 31st July – 1st August 2012 at Sri Jayachamarajendra College of Engineering, Mysore
  6. National Seminar on “ATOMS in the service of Nation” organized jointly by Institution of Engineers (India) – Mysore Local Chapter, Board of Research in Nuclear Sciences-Mumbai, SJCE-Mysore, and Indian Nuclear Society-Mysore held on 13th October 2012 at Institution of Engineers (India) – Mysore Local Chapter, Mysore.
  7. A two-day ISTE workshop on “Aakash for Education”, conducted by Indian Institute of Technology Bombay on 10th and 11th November, 2012. This workshop was held under the National Mission on Education through ICT (MHRD).
  8. Workshop on “Sustainable Management of Urban Water Bodies” organized by Mysore Zoo on 17th – 18th, December 2012.
  9. Workshop on “Indo-UK Perspective on Water Quality: Threats, Technologies and Options” on 13-14, August 2013 in JN TATA Auditorium Seminar Hall, Indian Institute of Science, Bangalore, India
  10. Faculty Development Programme on “Examination and Evaluation and Academic Auditing and Quality Assurance” under the financial assistance from TEQIP Phase II held on 24th and 25th August 2013 at SJCE, Mysore.
  11. International seminar on “Sustainable Developments – Myth or Reality” held at Senate Bhavana, Manasagangotri, Mysore on 14th and 15th of December 2013.
  12. QIP short term course on “Advanced Techniques for Satellite Image Analysis” conducted by IIT Bombay at Mumbai during February 10 – 14, 2014.

-----2014-2015-----

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13. MHRD-TEQIP-II sponsored Faculty Development Programme on “Emerging Trends in Chemical and Environmental Engineering (ETCEE-14)” organized by the Department of Chemical Engineering, National Institute of Technology Calicut, during 29th June to 5th July 2014.
  14. TEQIP-II sponsored “Quality Improvement in Teaching Learning Process” workshop organized by Sri Jayachamarajendra College of Engineering, Mysore, on 25th and 26th July, 2014.
  15. TEQIP-II sponsored “Human Relations at Work” workshop organized by Sri Jayachamarajendra College of Engineering, Mysore, on 3rd and 4th September, 2014.
  16. TEQIP-II sponsored “Understanding Self and Interpersonal Relationships” workshop organized by Sri Jayachamarajendra College of Engineering, Mysore, from 12th to 14th September, 2014.
  17. TEQIP-II sponsored “Stress Management and Wellness for Women” workshop organized by Sri Jayachamarajendra College of Engineering, Mysore, on 20th September, 2014.
  18. Two-week ISTE STTP (Indian Society for Technical Education Short Term Training Program) on “Pedagogy for Effective use of ICT in Engineering Education” conducted by India Institute of Technology Bombay from 05th to 31st January 2015.

-----2015-2016-----

19. National seminar on “Environmental and Water Resource Management” – (ENWARM), organized by the Department of Civil Engineering, JSS Academy of Technology (JSSATE), Bangalore in association with Karnataka Urban Water Supply & Drainage Board (KUWSDB), Bangalore and Indian Water Works Association (IWWA), Bangalore Centre, 5th and 6th of November, 2015.
20. TEQIP course on ‘Remote Sensing and GIS Applications in Hydrology’ conducted at the Department of Civil Engineering, IIT Roorkee from January 27 – 31, 2016.
21. TEQIP II sponsored 6-day workshop on ‘Pedagogy of Instructional Design and Delivery System’, organized by Sri Jayachamarajendra College of Engineering, Mysuru, 7th – 12th, June 2016.
22. GIAN course on “Fate and Transport of Contaminants in the Environment”, organized by the Department of Environmental Engineering, SJCE, Mysuru from 13th to 25th June, 2016.

-----2016-2017-----

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23. 3-Day workshop on “Advanced GIS and Remote Sensing Applications”, Organized by Centre for Geoinformatics Technology, DOS in Geography, Manasagangothri, University of Mysore, Mysuru from 26th to 28th September, 2016
  24. GIAN course on “Hydrologic Modeling and Climate Change”, organized by College of Technology, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, India from 12th to 16th December, 2016.
  25. GIAN course on “Energy, Sustainability and Life Cycle Risk Analysis”, organized by Sri Jayachamarajendra College of Engineering, Mysuru, Karnataka, India from 13th to 28th February, 2017.

-----2018-2019-----

26. GIAN course on “Geographical Information Systems (GIS) Methods for Flood Risk Management” (Course Code: 171036C10), organized by the Water & Environment Division, Department of Civil Engineering, National Institute of Technology, Warangal, during 25th July to 1st August, 2018.
27. CSE’s ‘Regional Knowledge Conclave for Colleges and Universities, Mysuru’, held on September 6 and 7, 2018 in Mysuru, organized by Centre for Science and Environment (CSE)
28. “Combat Depression” for Professionals and Public, organized by the Department of Pharmacology and Department of Psychiatry, JSS Medical College, Mysuru in association with Indian Psychiatric Society Combat Depression Task Force & IPS Karnataka Chapter, 22nd and 23rd October 2018.

-----2019-2020-----

29. 2-weeks SWAYAM course on “Digital Transformation in Teaching Learning Process”, offered by IIT Bombay, February 14th to March 6th, 2020
30. Five days Online Short-Term Training Program on “Bio-Energy: Technologies & Transitions”, Jointly Organized by National Institute of Technology, Kurukshetra and Government Engineering College, Bikaner, Rajasthan, 18th to 22nd May 2020, under TEQIP-III: Mentoring/Twinning System.
31. 12-weeks SWAYAM course on “Water Supply Engineering”, Jan 2020 to Apr 2020, offered by Prof. Manoj Kumar Tiwari, IIT Kharagpur. Roll No. NPTEL20CE23S22000006
32. 8-weeks SWAYAM course on “Plastic Waste Management”, Jan 2020 to Mar 2020 offered by Prof. Brajesh Kumar Dubey, IIT Kharagpur. Roll No. NPTEL20CE13S12000014

-----2020-2021-----

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33. Webinar on “Environmental Legislation and Amendments in India”, organized by the Dept. of Environmental Engineering, SJCE, JSS Science and Technology University, Mysuru, held on July 22, 2020
  34. One-week faculty development program on “Advances in Water Resources Management and Sustainable Environment”, organized by Dept. of Civil Engineering in association with IQAC-MSRIT from 17th – 21st August 2020 (online)
  35. Webinar on “River Rejuvenation Importance and Issues in Context of Present Scenario & Crisis”, organized by the Department of Environmental engineering, JSS Science and Technology University, Mysuru, held on 24th August 2020.
  36. One-week faculty development program on “Advanced Surveying and Geo-Informatics”, organized by Dept. of Civil Engineering in association with IQAC-MSRIT from 24th – 29th August 2020 (online)
  37. One-week faculty development program on “Pedagogical Techniques for Virtual Class Room”, organized by Dr. SSBUI CET, Panjab University, Chandigarh from 3rd to 6th, September 2020 (online)
  38. National Webinar “Hydroinformatics for Smart Water Management in Agriculture”, jointly organized by CAE, RPCAU, Pusa; NIH, Roorkee; Dept of WRDM, IIT Roorkee & Div. of Agril. Engg., ICAR-IARI, New Delhi on 20 October, 2020.
  39. One week E-training program/short term course on “Advancements in Civil Engineering (with emphasis on water resources, environmental engineering and climate change)” in the discipline of Civil Engineering, November 02-07, 2020 at IIT Indore.
  40. One week TEQIP Online - STTP on “Advanced Technologies in Water Resources Management (ATWARM-2020)” organized by Department of Civil Engineering, Government College of Engineering Aurangabad (Maharashtra State), India in association with Indian Water Resources Society and Indian Society for Hydraulics (Aurangabad Local Centre) during 23-27 November, 2020.
  41. ATAL – AICTE Training And Learning (ATAL) Academy Online FDP on “Global Navigation Satellite System (GNSS)” from 18-12-2020 to 22-12-2020, organized by National Institute of Technology Mizoram. (No: ATAL/2020/1606731700).
  42. ATAL – AICTE Training And Learning (ATAL) Academy Online FDP on “Smart Cities – Concepts, Strategies, Opportunities and Challenges” from 05-01-2021 to 09-01-2021, organized by the Dept. of civil Engineering, Nitte Meenakshi Institute of Technology (NMIT) NMIT, Bengaluru. (No: ATAL/2020/16067316360).
  43. ATAL – AICTE Training And Learning (ATAL) Academy Online FDP on "Emotional Intelligence" from 2021-1-18 to 2021-1-22 at International Management Institute, Bhubaneswar. (No: ATAL/2020/1608656696).

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44. Coursera courses completed:
    - a. “Greening the Economy: Sustainable Cities”, 5-weeks, authorized by Lund University, Sweden; course coordinators - Kes McCormick, Lena Neij, Charlotte Leire, Harriet Bulkeley; Completed on May 26th 2020; May 11th to June 15th, 2020
    - b. “Introduction to GIS Mapping”, 6-weeks, University of Toronto; Instructor - Don Boyes; Completed on August 7th, 2020; July 2nd to August 13th, 2020
    - c. “GIS Data Acquisition and Map Design”, 7-weeks, University of Toronto; Instructor - Don Boyes; Completed on August 22nd, 2020; July 27th to September 17th, 2020
    - d. “New Learning: Principles and Patterns of Pedagogy”, 4-weeks, University of Illinois at Urbana-Champaign; Instructors – Dr. William Cope, Professor and Dr. Mary Kalantzis, Professor; Completed on September 7th, 2020; August 13th to September 10th, 2020
    - e. “Spatial Analysis and Satellite Imagery in a GIS”, 5-weeks, University of Illinois at Urbana-Champaign; Instructors – Dr. Don Boyes, Professor; Completed on September 28th, 2020; August 24th to October 1st, 2020
    - f. “Introduction to Indoor Air Quality”, 4-weeks, The Hong Kong University of Science and Technology; Instructor – Dr. Christopher Chao; Completed on October 3rd, 2020; September 28th to October 26th, 2020
    - g. “Disaster Preparedness”, 7-weeks, University of Pittsburgh; Instructor - Michael Beach; Completed on November 11th, 2020; Oct 12th to Nov 23rd, 2020
  45. Participated in an online International Conference on Soil and Water Resource Management (ICSWRM 2021) organized by College of Technology and Engineering, MPUAT, Udaipur, Rajasthan, India during 26-27 February, 2021.
  46. One-week Short term Course on Recent Trends in Water Engineering sponsored by AICTE-QIP, organized by Department of Civil Engineering, Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, held during 25th – 30th May 2021.
  47. 12-weeks SWAYAM course on “Environmental Chemistry and Microbiology”, Jan 2021 to Apr 2021, offered by Prof. Anjali Pal and Prof. Sudha Goel, Dept. of Civil Engineering, IIT Kharagpur. Roll No.: NPTEL21BT22S14040208

-----2021-2022-----

48. ATAL - AICTE Training And Learning (ATAL) Academy FDP on "Gender Equity: Challenges And Opportunities For Women In Decision Making" from 2021-07-26 to 2021-07-30 at NMAM Institute of Technology, Nitte, Karnataka, India. (No:ATAL/2021/1625117641).
49. One Day National Webinar on “Academic and Administrative Audits of HEI’s” organized by Tukaram Krishnaji Kolekar Arts and Commerce College, Nesari, Kolhapur (Maharashtra), affiliated to Shivaji University, Kolhapur in Collaboration with Shivaji University, Kolhapur, held on 23rd Oct, 2021.
50. FDP on “Recent Advances in Wastewater Treatment and Recycle” sponsored by VGST/KSTePS, Government of Karnataka, , organized by the Department of Chemical

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Engineering, SDM College of Engineering and Technology, Dharwad, Karnataka, India, held from 16th -19th November 2021.

51. “Leadership Development Program 2021”, organized by JSS Science and Technology University, Mysuru at JSS College of Pharmacy, Ooty from 25/11/2021 to 27/11/2021.
52. Five Days Online FDP Programme on "Advances in Water Resources Engineering and Irrigation Management" from 3-1-2022 to 7-1-2022" at SSN College of Engineering, an Autonomous Institution, Affiliated to Anna University, Chennai.
53. 12-weeks SWAYAM-NPTEL course on “Microwave Remote Sensing in Hydrology”, Jan 2022 to Apr 2022, offered by Prof. Indu J., Dept. of Civil Engineering, IIT Bombay. Roll No.: NPTEL22CE23S23910697.

-----2022-2023-----

54. ‘Implementation of NEP2020 for University and College Teachers’, UGC Approved ShortTerm Professional Development Programme under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, organized by Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education, New Delhi 110068, held from 09th to 17th September, 2022.
55. “Outcome Based Education”, conducted by National Institute of Technical Teachers Training and Research, Chennai, organized by Sri Jayachamarajendra College of Engineering, JSSSTU from October 10-14, 2022.
56. ‘Science and Sustainability in India’, NIAS-DST Programme for Women Scientists/Technologists, Organized by National Institute of Advanced Studies, Bengaluru, October 17-21, 2022.
57. ‘Scholarly publications: Tools and Techniques’, organized by Library and Information Center, SJCE, JSS Science and Technology University, Mysuru from January 6 – 8, 2023.
58. ‘Certificate of Energy Literacy’, as part of Energy Literacy Training by Energy Swaraj Foundation, 23-03-2023

-----2023-2024-----

59. Professional Development Program on ‘The “Secret Sauce” of Professional Excellence’, organized by IQAC, JSS Science and Technology University, Mysuru on 27th September, 2023.
60. 8-weeks SWAYAM-NPTEL course on “Sustainable Engineering Concepts and Life Cycle Analysis”, Jul 2023 to Sep 2023, offered by Prof. Brajesh Kumar Dubey, Dept. of Civil Engineering, IIT Kharagpur. Roll No.: NPTEL23CE90S34740923.
61. ISO 14001:2015 Lead Auditor Training Course, Environmental Management Systems delivered by IRCLASS, 16 October 2023.
62. 2-day Faculty Development Program on “IP Ecosystem in Academics – perspectives and impact”, funded by KSCST, held at JSS Science and Technology University, Mysuru on 17th and 18th October 2023.
63. Two day “3rd National Level Workshop - Transformation through NAAC Accreditation Process” for Higher Educational Institutions and Health Science Institutions held on 30th &

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31st October 2023 through online mode conducted by ‘Institute for Academic Excellence (IAE), Hyderabad’

64. 12-weeks SWAYAM-NPTEL course on “Industrial Wastewater Treatment”, Jan-Apr 2024, offered by Prof. Sunil Kumar Gupta and Prof. Alok Sinha, Department of Environmental Science & Engineering, IIT (ISM) Dhanbad, Jharkhand, Roll No.: NPTEL24CE53S562600230

-----2024-2025-----

65. 14th CII “National Higher Education Summit – Preparing Future Workforce for India@100”, 18th November 2024, at The Lalit, New Delhi. Financial support received: Rs. 42,525.33.
66. ISO 9001:2015 Lead Auditor Training Course, Quality Management Systems delivered by IRCLASS, 27 January 2025.
67. 08-weeks SWAYAM-NPTEL course on “Biological Process design for Wastewater Treatment”, Jan-Mar 2025, offered by Prof. Prof. Vimal Chandra Srivastava, Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, Roll No.: NOC25CH08S337400010

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68. Certified facilitator of Introduction to AI, Introduction to Machine Learning and AI for Sustainability based on the AI for Future Workforce Program conducted for the JSS Science and Technology University, Mysuru, India from August 11, 2025 to August 20, 2025.
69. Active participation in AIWC@5 (Australia India Water Centre 5th Anniversary) Partners Forum and International Symposium
- Partner Forum: Reflecting, Reimagining, Recommitting The Future of Australia–India Water Collaboration – keynote speeches and group discussion 17th to 19th November 2025, Western Sydney University, Parramatta Campus, Sydney, Australia.
  - Technical Tour: The Hawkesbury Water Recycling Scheme, National Vegetable Protected Cropping Centre, Hawkesbury campus, Western Sydney University, Sydney, Australia, 19th November 2025.
  - Paper presentation on “Modular Hybrid STP: A Sustainable Solution for Decentralized Urban Wastewater Management”, 18th November 2025, Western Sydney University, Parramatta Campus, Sydney, Australia.
  - Paper presentation on “Optimisation of Water Distribution Network in T. Narasipura, Karnataka: A Hydraulic Modelling Approach Using Water GEMS for Sustainable and Reliable Supply”, 18th November 2025, Western Sydney University, Parramatta Campus, Sydney, Australia.

### **R & D Projects Undertaken**

1. KSCST sponsorship (Student Project Program (SPP) – 38<sup>th</sup> series 2014-2015) for the project titled “Methane Generation from Dried Vegetable Waste”. Project proposal reference number: 38S1615. Cost: Rs. 5000/-

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2. Dr. B. Manoj Kumar (PI), Dr. Pushpa Tuppad (CO-PI), Rohini (Collaborator – CDD). 2017-2020. “Biological nutrient removal from wastewater in modified DEWATS system for reduced land and energy footprint”, funded by Department and Science and Technology under Water Technology Initiative. Cost: Rs. 37.4 lakhs.
  3. Dr. Pushpa Tuppad, Ms. Shravana S Narasannavar, 2022, “Biodegradation of Plastic using Greater Wax Moth (*Galleria Melonella*)”, funded by KSCST 45th series of Student Project Programme (SPP): 2021-22, Sanctioned amount: Rs. 7,000.0
    - This project is selected for state level seminar scheduled on 12th and 13th August 2022 at Visvesvaraya Technological University (VTU), Belagavi.
    - The project is awarded ‘Best Project of the Year’ during the Seminar and Exhibition held at Visvesvaraya Technological University (VTU), Belagavi on 12th and 13th August 2022.
  4. Dr. Pushpa Tuppad, Mr. Chandrashekar B., 2023. “Comparative study on complete analysis of Intermittent v/s. Continuous (24X7) Water supply system for urban areas”, approved for funding by CPHEEO. Approved amount: Rs. 40.273 Lakhs

### **Consultancy Projects Undertaken (in reverse chronology)**

1. GEONET CONSULTANTS (OPC) PVT LTD, Mysuru
2. Dr. Dayakar Devaru, Dr. Mohan N, Dr. Pushpa Tuppad, Mrs. Thanushree M S. 2023. Environmental and Green Audit. JSS Academy of Higher Education and Research, Mysuru.
  - a. JSS Medical College, Mysuru
  - b. JSS Dental College and Hospital, Mysuru
  - c. JSS College of Pharmacy, Mysuru
  - d. JSS School of Life Sciences, JSSAHER Main Campus, Mysuru
  - e. JSS School of Life Sciences, Agrahara Campus, Mysuru
  - f. JSS School of Life Sciences, Ooty
  - g. JSS College of Pharmacy, Ooty
3. Dr. Sadashiva Murthy B M, Dr. Pushpa Tuppad, Mrs. Savitha Ulavi, Mrs. Sahana M. 2022-2023. Green Audit. JSS Law College, Mysuru. INR 0.05.
4. Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, Mrs. Savitha Ulavi. 2021-2022. ‘Oleoresin extraction from Marigold: Environmental quality analysis and air modeling’, Chenguang Natural Extracts India Pvt. Ltd. INR 5.428 Lakhs
5. Dr. B. Manoj Kumar, Dr. Pushpa Tuppad, Mrs. Sahana M, Mrs. Thanushree M S, Dr. Vishishtta Nagaraj. 2021-2022. Green Audit. JSS College of Arts, Commerce and Science, Ooty Road. INR 0.05.Lakhs
6. Dr. B. Manoj Kumar, Dr. Pushpa Tuppad, Mrs. Parinitha T. Niranjana. 2020-2021. Green Audit. Basudev Somani College, Mysuru. INR 0.059 Lakhs
7. Dr. B. Manoj Kumar, Dr. Pushpa Tuppad, Mr. Chandrashekar B. 2020-2021. Green Audit MMK SDM MMV, Mysuru. INR 0.059 Lakhs

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8. Dr. B. Manoj Kumar, Dr. Pushpa Tuppad, Mrs. Thanushree M S, Dr. Vishishtta Nagaraj, Mr. Chandrashekar B. 2020-2021. Green Audit. JSS College for Women, Saraswathipuram, Mysuru. INR 0.059 Lakhs
  9. Dr. B. Manoj Kumar, Dr. Pushpa Tuppad, Mr. Chandrashekar B. 2020-2021. Green Audit. JSS College of Arts, commerce & Science, Nanjangud. INR 0.15 Lakhs.
  10. Dr. B. Manoj Kumar, Dr. Pushpa Tuppad, Mr. Shivakumar B. P. 2020-2021. Green Audit. Dayananda Sagar Academy of Technology and Management, Bengaluru. INR 0.295 Lakhs.
  11. Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, 2020-2021. ‘ETP Audit’, funded by M/s West Coast Paper mills Ltd., Dandeli; INR 6,26,750.00 + GST
  12. Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, 2017-2018. ‘Kali River Water Quality Monitoring and Modeling Studies’, funded by M/s West Coast Paper mills Ltd., Dandeli; INR 3,96,750.00 + GST
  13. Dr. K. S. Lokesh, Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, Ms. Savitha Ulavi. “Design of Sewage Network and STP for Koppal Institute of Medical Sciences at Koppal”. KHSDRP (Karnataka Health System Development and Reform Project), Government of Karnataka, Completed April 2015; Cost: 1.0 lakh
  14. Dr. K. S. Lokesh, Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, Ms. Savitha Ulavi. “Design of a tertiary treatment plant of capacity 20MLD expandable to 45 MLD”. ARK Rao Engineering Solutions, Completed August 2015; Cost: 1.0 lakh
  15. Dr. K. S. Lokesh, Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, Ms. Savitha Ulavi. “Integrated bulk water supply to Mysore city from Cauvery river source near hale Undavadi under UIG sub-mission”. Completed Feb 2014; Cost: 2.0 lakhs.
  16. Dr. K. S. Lokesh, **Dr. Pushpa Tuppad**. Third party review - “Construction of new 300 MLD Water Treatment Plant in lieu of Existing Cauvery Water Supply Scheme (CWSS) Stage I & II at T. K. Halli Bangalore Water Supply and Sewerage Board”. Completed Dec 2013; Cost 1.0 lakhs.
  17. Dr. K. S. Lokesh, Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, Ms. Savitha Ulavi. Third party review - “Project Appraisal Interim Report On Population Projection and Design Parameters for Comprehensive UGD Scheme to Mysore under Jn - NURM Transition Phase”. Completed Oct 2013; Cost: 2.0 lakhs.
  18. Dr. K. S. Lokesh, Dr. B. Manoj Kumar, **Dr. Pushpa Tuppad**, Ms. Savitha Ulavi. Third party review - “24 x 7 Water Supply for Mysore City under JN - NURM Phase – 2”. Completed Sept 2013; Cost: 2.0 lakhs.
  19. Environmental Audit for the following institutions
    - a. JSS College of Arts, Commerce and Science, Ooty Road, Mysuru
    - b. JSS Public School, SJCE Campus
    - c. JSS Women College, Saraswathipuram
    - d. Kalpatharu Science College, Tiptur
    - e. Kalpatharu Arts and Commerce College, Tiptur

### **Session Chair**

- Chaired a session on the theme ‘Urban Heat Islands and Built Environment Resilience’ in the International Conference on “Heat and Heatwave Trends and Their Health Implications in the Global South” Jointly Organized by JSS STU, NAM S&T Centre and

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SCOPE, held on 6th - 7th November, 2025' at JSS Science and Technology University, Mysuru, Karnataka, India.

- Chaired a session on the theme “Environment, Sustainability, and Social Responsibility” in the ‘International Conference on Digital Innovation and Transformation in South East Asia’, held on 20th and 21st August 2025, organized by JSS Science and Technology University, Mysuru, Karnataka, India.
- Chaired a session in 2012 International SWAT Conference, Indian Institute of Technology, New Delhi, India, July18-20, 2012.

### **Scientific Committee Member**

2018 Soil and Water Assessment Tool (SWAT) conference, IIT-Madras, Chennai

<http://swat.tamu.edu/conferences/2018/>

### **Invited lectures and other activities on invitation (in reverse chronology)**

1. Invited Speaker – Dr. Pushpa Tuppad presented a talk on “Urban contribution to Global Warming” in ‘Eco-friendly Meet and Greet’ event, organized by Design Spring Business in held on February 8th, 2025 at hotel Savera, Mylapore, Chennai, Tamil Nadu.
2. Invited Speaker – Dr. Pushpa Tuppad presented a talk on “Sustainability and Environmental Practices-Promoting Sustainability” in the Capacity building program on ‘Transforming Technical Education: Best practices and Innovations for technical staff’, organized by the Department of Electronics and Communication Engineering, JSS Science and Technology University, Mysuru, held during 17th - 21st September 2024
3. Invited Speaker – presented a talk on “Hydrological Processes, rainfall-runoff and effectiveness of land management strategies modeling of upper Cauvery river basin” in one day National Conference on “Cauvery: Nature Presents and Man Disputes (NC-CNPAMD)”, organized by Prof. B. Shivalingaiah Felicitation Committee and Mandavya Group of Institutions (SBET), on 6 December 2023, Mandya.
4. Delivered invited guest lecture (schedule below) in the Dept. of Civil Engineering, The National Institute of Engineering, Mysuru.
  - a. “DEWATS, Concept of Constructed Wetlands, Self-Purification of Streams” on 13.02.2023, 9:00 am to 10.30 am
  - b. “DEWATS, Concept of Constructed Wetlands, Self-Purification of Streams, Biomagnification and Bioaccumulation” on 15.02.2023, 2.30 pm to 4.00 pm
5. Judge – poster completion Neogene, Dept. of Polymer Science and Technology.
6. Resource person – delivered an invited talk on “Geoinformatics and Environmental Applications” on 15/12/2021 in 21-days Winter School (Level-I) on “Geospatial Science and Technology”, online training programme, sponsored by DST, New Delhi and hosted by Center for Geoinformatics Technology, Department of Studies in Geography, Manasagangothri Campus, University of Mysore, Mysuru from 6/12/2021 to 28/12/2021.
7. A talk (webinar) on “Applications of Remote Sensing and GIS for Water & Waste Management” on 25.11.2020 in AICTE – ISTE Refresher (FDP) Program, 24th Nov to 30th

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- Nov 2020, organized by Angadi Institute of Technology and Management, Savagaon Road, BELAGAVI – 590 009, Karnataka, India
8. A talk (webinar) on “Applications of Remote Sensing and GIS in Water Resources Engineering and Sustainable Environment”, organized by Dept. of Civil Engineering, BGMIT, Mudhol, Karnataka, India on 30th September 2020.
  9. A talk on “Simulation Modeling for the Effectiveness of Management Practices for Soil and Water Conservation”, at ICAR-Indian Institute of Soil and Water Conservation, Udagamandalam, Tamil Nadu, India on 23rd December, 2019.
  10. Resource person to provide training on SWAT modeling in a Two-day Training Program on “Hydrological Modelling using SWAT including Parametric Uncertainty and Sensitivity Analysis”, February 08-09, 2019, held at Center of Excellence - Water Resources Engineering, Department of Civil Engineering, Sardar Vallabhbhai Patel National Institute of Engineering (SVNIT), Surat, Gujarat.
  11. A talk on 'Applications of RS & GIS in Environmental Modelling', in a five-day Faculty Development Programme on "RS & GIS Challenges in Civil Engineering", organized by the Department of Civil Engineering, Vidyavardhaka College of Engineering, Mysuru, held from 08 to 12 January, 2019.
  12. **Judge** of the Inter-school Competition (Science Model Making) JO FEST – 2018 held on 12/01/2018 at St. Joseph’s Central school, Mysore-Hunsur Road, Yelwal Post, Mysuru – 571130.
  13. A talk on ‘IoT applications - Sensory Mechanism for Water levels, Water Quality and Energy Management’, in All India Seminar on “Recent Advances in Wastewater Treatment and Disposal” on 24th and 25th April, 2017, SDM College of Engineering and Technology, Dharwad, Karnataka.
  14. A talk on ‘Application of SWAT model’ on Oct, 6th in the training workshop on ‘Modelling of Impact of Climate Change for experts from ASEAN (Southeast Asian) countries during Oct 3 to 8, 2016, organized by Indian Institute of Science and was held at Chancery Pavilion Hotel, Residency Road, Bangalore.
  15. A talk on “Design Aspects of Intakes, Pumping Main, Pump Sets, Water Treatment Plant – Norms and Design Aspects”, on 16/06/2015 in a one week short-term training program on “Design and Construction of water Treatment Plant, Piped Water Supply, Mini Water Supply and Environmental Engineering”, 15/06/2015 to 19/06/2015 at Engineering Staff College, Krishna Raja Sagara, Mandya.
  16. Lectures on “Course Objectives & Course Outcomes” and “Innovative Pedagogical Methods for Improved Teaching – Learning Environs” in One day Workshop on Outcome Based Education (OBE) for the members of the faculty of JSS Polytechnic for Differently Abled (JSS PDA), Saturday, 7th March 2015.
  17. A talk on “RS/GIS for Water Resources Management” for the student of M. Sc. In Environmental Sciences, organized at Department of Water and Health, JSS University Sri Shivarathreshwara Nagara, Mysore – 570 015 on 19 May 2014.
  18. A talk on “Application of GIS in Disaster Management – Case Studies” in Two-day workshop under TEQIP-II on “GIS for Disaster and Hazard Management”, organized by the Department of Civil Engineering, UVCE, Jnanabharathi, Bangalore at UVCE, Bangalore, Oct 23-24, 2013.

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19. A talk on “Environmental Awareness” at Suttur, Mysore, on April 27th, 2012 during the personality development workshop organized by JSS for D.Ed. and B.Ed. graduates.

### **Professional Affiliation**

- Member, Institution of Engineers
- Member, Indian Water Works Association
- Member, (Membership No. 5223 in the year 2020) of the international Association for Water, Environmental, Energy, and Society.
- Member, (LM-12027) Indian Society of Agricultural Engineers
- Member, (ID – FIZAhNKItk0JB2) Institute of Investigation in Remote Sensing and GIS
- Life member, Indian Water Resources Society (LM 2021-7901), since June 21<sup>st</sup>, 2021

### **Courses Taught**

<b>M.Tech.</b>	<b>UG</b>
<ul style="list-style-type: none"><li>• Advanced Water Resources Engineering</li><li>• Water Reuse and Recycle Technology</li><li>• Remote Sensing and GIS</li><li>• Design of Wastewater Treatment System</li><li>• Environmental Chemistry and Microbiology</li><li>• GIS for Health Care Management</li><li>• Industrial Pollution and its Prevention</li></ul>	<ul style="list-style-type: none"><li>• Remote Sensing and GIS</li><li>• Water Resources Engineering and Management</li><li>• Fate and Transport of Environmental Pollutants</li><li>• Estimation, Specification and Financial Aspects</li><li>• Design and Drawing of Environmental Systems</li><li>• Wastewater Engineering I and II</li><li>• Environmental Impact Assessment</li><li>• Industrial Wastewater Treatment Technologies</li><li>• Urban Environment and Sustainability</li></ul>

### **M.Tech./BE Projects Guided**

- UG : 17 (Completed)
- M.Tech. : 25 (Completed)
- Ph.D. : Awarded: 02; Ongoing: 03

### **Other professional activities**

**Reviewer** of International Journals: Transactions of the American Society of Agricultural and Biological Engineers; Environmental Management; Water, Air, and Soil Pollution; Hydrological Processes; Journal of Earth System Science; Water Resources Management.

**External examiner** for UG and MTech projects/thesis of various other higher education institutions.

**Review Editor** – Pantnagar Journal of Research, G B Pant University of Agriculture and Technology, Pantnagar, Uttarakhand

**Expert committee member** – to develop model curriculum for M.Sc. in GIS (Geoinformatics)

**Member**, Board of Studies – Dept. of Environmental Science, Yuvaraja College, Mysuru