

Academics

1. Subjects Taught:

- Solid waste Management
- Hazardous waste management
- Elements of Environmental Engineering
- Environmental Engineering Management Practices
- Origin and Characterization of Environmental pollution
- Bio Medical Waste Management
- Applied Microbiology and Public Health
- Disaster Management
- Water Resources Engineering and Applied Hydraulics
- Natural Resources conservation & Management
- Vulnerability Assessment & Disaster Management
- Principles of Biomedical Waste Management
- Water Supply and Distribution Systems
- Environmental Aspects of Reservoir and Mining Projects
- Wastewater Collection and Drainage Systems
- Ecology and EIA
- Assessment of wastewater disposal Impact
- Surveying Practice
- Physico- Chemical Processes Lab
- Atmospheric Environmental Engineering Lab

2. List of short-term courses / national level technical symposia organized

- Course Contributor and prepared lecture materials for Training Programmes
- Involved and **Co-ordinated 83 Training Programmes** on the following topics for training working professionals of various departments in the Southern States under **ITN-WATSAN Sector Training Programmes**, sponsored by RGNDWM, Ministry of Rural Areas and Employment, Government of India, New Delhi.
- Water Quality Monitoring and Surveillance
- Rural Water Supply and Waste Management
- Surface Drainage and Soak Pits
- Investigation, Installation, Operation and Maintenance of Hand Pumps
- Design of Rural Water Supply System – Computer Aided.
- Co-ordinator, AICTE-ISTE sponsored Short-Term Training Programme on “**Managing Hazardous Wastes in the New Millennium**”, held during 3-15 September, 2001 at S.J. College of Engineering, Mysore.
- Co-ordinated several **Refresher Courses, Workshops** and Short-term Courses and delivered lectures for working professionals of various Government organizations of different states (PWD, CPWD, PHED, Zilla Panchayats, etc.) since 1993.
- Co-ordinated **five days** MISSION10X Learning Approach Workshop on **HIGH IMPACT TEACHING SKILLS** at SJCE, Mysore during 25th to 29th May, 2009 organized by S.J.College of Engineering, Mysore in association with **MISSION10X Wipro**.
- Co-ordinated **Five day** SWOT Analysis programme at SJCE, Mysore during 10th to 14th and 21st -22nd , May, 2010 at SJCE-STEP for the Teaching, Administrative and Non-

teaching staff of SJCE, organized by S.J.College Of Engineering, Mysore in association with **Scalene Works, Bangalore.**

- Co-ordinated and Involved in Preparation of **Project proposal for TEQIP Phase-II** during August, 2010 for submission to SPFU, DTE, Bangalore.

3. R&D Projects Executed (2)

- Principal Investigator for the research project on “A study on the transport of industrial volatile organic compounds (VOC) through different sub-soils and groundwater pollution”- UGC funded (10.14 lakhs). – Completed (2017).
- Co-investigator for the research project on “Treatment of Petroleum Refinery wastewater for the removal of resorcinol and catechol batch and continuous reactor and their kinetic studies”- UGC funded (10.5 lakhs).- Completed (2015).

4. Ph.D Research Projects Guided (3)

- Fate and Transport of VOCs Through different Sub Soil and Groundwater (2012).
- Reuse of Grey-Water for Secondary End Purposes (2012).
- Study on development of Hybrid Water Purification System to Treat Geogenic Pollutants (2013).

5. M.Sc Environmental Science Projects Guided (2)

- Solid Waste Management in Mysore City (2003).
- Quantification of Clinical Wastes in Mysore City (2003).

6. PG Projects Guided (31) (in the reverse chronological order)

- Generation of Biogas from Anaerobic Digestion of Pulp and Paper Sludge (2017).
- Water Footprint for Integrated Steel Plant- JSW Steel Ltd, Bellari (2017).
- Treatment of Domestic Wastewater using Geotextile as a filter media (2016).
- Human Nails as a Biomarker for Fluoride Exposure- A Case study (2016).
- Life Cycle Assessment (LCA), A Tool for Integrated Solid Waste Management: A Case Study (2016).
- Rationalization of sludge removal and disposal to improve sludge treatment of a food processing Industry (2015).
- Planning and Designing of a Comprehensive Water Supply Scheme to Four Panchayaths in Kozhikode District of Kerala State (2015).
- Water and Energy Audit for Chemical Industry- A Case Study (2015).
- Bio- Medical Waste Management for Mandya City (2014).
- Recovery of Useful By-Products from waste stream of Pharmaceutical Effluent (M/S. Jubilant Life Sciences Ltd) (2014).
- Treatment of Phosphorus at inlets of Kukkarahalli Lake (2014).
- Current scenario of E-waste management in Mysore (2013).
- Preparation of Silica gel using rice husk ash- an eco-friendly approach (2013).
- Water Quality study in selected restaurants of mysore city: Health associated risk assessment (2013).

- Scenario of solid waste management in an institutional campus (2013).
- Utilization of byproduct of a roller flour mill for the production of Biofuel (2012)
- Application of VLEACH Model to estimate the transport of VOC through clayey soil (2012).
- Estimating Transport of VOC through soil to groundwater using VLEACH Model (2010).
- Studies on the degradation of Fertilizers and pesticide (Chloropyriphos) by using Lysimeter (2009).
- Study on Pollutant Migration in Subsurface Environment (2008).
- Rejuvenation of the source for CWSS to Kombai, Pannaipuram and Thevaram town panchayats of Theni district in Tamilnadu (2007).
- Study on Composting of Municipal Solid Waste (2006).
- Modeling of Pollutant Migration in the Subsurface Environment (2005).
- Study of Integrated Solid Waste Management in Rajarajeshwari Nagar city Municipal Council (2005).
- Rural Water Supply Scheme for Nettekallu and Other Four Villages (2005).
- Characterization, Collection Route Optimization and Existing Solid Waste Management in Mysore City (2004).
- Development of a Disposal Technique for Grinding Muck Waste from an Automobile Component Industry (2002).
- Computer Aided Design of Wastewater Treatment Units (2001).
- A Technical Study of Water Supply Scheme for Kundhara and Adjoining Panchayats in Kerala State (2000).
- A Case Study on Sustainability of Rural Water Supply Schemes in Thiruvallur District of Tamil Nadu (1999).
- Campus Wastewater Treatment and Reuse (1998).

7. UG Final Year Projects Guided (24) (in the reverse chronological order)

- An Integrated approach for treating PCB manufacturing waste streams at AT & S, Nanjangud (2017).
- Performance evaluation of Effluent treatment plant at Hector Beverages PVT Ltd., Mysuru (2016).
- Performance evaluation of Effluent treatment plant at Karnataka Soaps and Detergents Ltd, Bengaluru (2015).
- Solid Waste Management in a Tyre Industry (2014).
- Performance Evaluation of ETP at South India Paper Mill (SIPM) Ltd, Nanjangud (2013).
- Study on Hospital Waste Management at JSS and KR Hospitals (2012).
- Photodegradation of selected organic dyes using metal oxide based semiconductor under sunlight and UV light- A comparative study (2012).
- Assessment of Groundwater Quality in Hebbal Industrial Area, Mysore (2011).
- Water Quality assessment in Dental Unit Waterlines (DUWL) (2011).
- Zero Waste Management in Mysore City -Case Study of Kumbarakoppal (2010).

- Groundwater Analysis In And Around Distillery Near Nanjangudu (2010).
- Ground water Quality analysis in and around MSW dumpsite (2009).
- Bio-Medical Waste Management in Mysore City- A case Study (2008).
- Leaching Characteristics of Nitrates and Phosphates in Subsurface Agricultural Soil (2007).
- Studies on Microbial Degradation of Methyl Parathion (2006).
- Management of Epoxy Powder Generated from Printed Circuit Board Manufacturing (2005).
- Groundwater Potential Zonation and Identification of Recharge Zones in Mysore District – A Case Study Using GIS (2004).
- Treatment and Utilization of Wastes from Food Industry (2003).
- Evaluation of Rural Water Supply System of Kadakola Village – A Case Study (2002).
- Solid Waste Management in Mysore City (2001).
- Rural Water Supply and Sanitation in Project and Non-project Villages of Mysore Taluk – An Evaluation Study (2000).
- Sulfate Recovery from Textile Industry Wastewater (2000).
- Performance Evaluation of Settling Tanks in a Metal Valve Manufacturing Industry (1997).
- A Case Study of Lingambudhipalya Village Water Supply Scheme (1996).

8. UG 6th Semester Projects guided (in the reverse chronological order)

- Study on School Sanitation in Two Villages of Mysore District (2004).
- Comparison on Fuel Efficiency of Briquettes with Conventional Fuels (2003).