

## **Faculty Profile**



**Ms. M. Kalpana , M.E., (Ph.D)**  
Associate Professor & HoD – CIVIL

### **HIGHLIGHTS:**

- Number of Journal Publications:16
- H-Index:02
- Project Funding Received: NIL
- Patents Published: 02
- Patents Granted: NIL

### **PROFESSIONAL LINKS:**

- Scopus ID: 57752226900
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57752226900>
- Google Scholar ID: <https://scholar.google.com/citations?user=G0ik5pIAAAAJ&hl=en>
- Anna University Faculty ID: 261801 & 2122099 (COE ID)
- AICTE Faculty ID: 1-717031302
- Anna University Supervisor ID: NIL
- LinkedIn: <https://in.linkedin.com/in/kalpana-manoharan-a979a1199>

### **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 21 years 4 months
- Industrial Experience: 1 year

### **INTERNATIONAL EXPOSURE:**

- Presented a research work titled “Assessing the Effects of Industrial Effluents on Environment in Vellore”, 4th International Conference on Bio-energy, Environment & Sustainable Technologies, Arunai Engineering College.
- Participated in the First International Conference on "Instrumentation, Electrical, and Electronics Engineering" organized by Saveetha Engineering College, Chennai, on 31st March 2017.
- Organized International Conference in the Department of Civil Engineering, Saveetha Engineering College (RICE'18, RICE'19, ISCCE'20 ICETCE'22, ICETCE'23, ICETCE'24)

### **AREA OF SPECIALIZATION:**

- Water Supply Engineering
- Wastewater Engineering

- Concrete Technology
- Research Interests:
- Wastewater Management
- Waste Management
- Alternate Material for Construction
- Alternate Material for water treatment

**Ph.Ds AWARDED WITH DETAILS: NA**

**Ph.Ds GUIDING: NA**

- **Full Time Scholars:** NA
- **Part Time Scholars :** NA

**SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

- Funding applied for CSIR-ASPIRE project scheme (2023)
- Funding applied for Tamil Nadu State Council for Science and Technology (TNSCST) project schemes

**PATENTS PUBLISHED/GRANTED:**

1. Patent awarded to M.Kalpana by Intellectual Property India for “Automated Air Quality Monitoring System in Real Time Cabin Environment and Enhanced Driver Health”. Patent Number: 202341038755 (01-Sep-2023)
2. Patent awarded to M.Kalpana by Intellectual Property India for “Agriculture Drone with Pesticides Spraying Mechanism”. Patent Number: 62964 (22-Sep-2023). (Applied for Grant).

**COURSES CERTIFIED:**

- Certified by NPTEL for the course “Accreditation and Outcome Based Learning” (Aug-Oct 2022)
- Certified by NPTEL for the course “Wastewater Treatment and Recycling” (Jul-Oct 2018)
- Certified by IUCEE in the International Engineering Educator Certification Program (IIEECP)

**ACHIEVEMENTS AND AWARDS:**

- Received the "Best Teacher" award from Saveetha Engineering College in 2011.
- Honored with the "Best Teacher" award by Saveetha Engineering College in 2012.
- Awarded the "Best Teacher" recognition from Saveetha Engineering College in 2014.
- Achieved the "Best Teacher" award from Saveetha Engineering College in 2016.
- Received the "Best Teacher" award from Saveetha Engineering College in 2018.

**SPECIAL SESSIONS DELIVERED:**

- Delivered lecture in the IEI Seminar on Remote Sensing & GIS Applications on Water Resources Engineering (March 03-04, 2023)
- Delivered a Guest Lecture organized by the Faculty Training Centre in association with the Department of Industrial Biotechnology and Department of Civil Engineering, Government College of Technology, Coimbatore (Date: 23.12.2021).

## CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Attended a national-level workshop titled "Recent Trend in AI Innovation & Solutions for Contemporary Challenges" organized by Saveetha Engineering College from 22nd to 27th January 2024.
- Participated in a national workshop on "Productivity Enhancement through Stress Management" organized by G.H. Rasoni Institute of Engineering and Technology, Nagpur, from 20th to 24th February 2023.
- Attended a national workshop titled "Futuristic Research Scope in Civil Engineering" organized by CK College of Engineering and Technology from 23rd to 27th August 2022.
- Participated in a national workshop on "Inculcating Universal Human Values in Technical Education" conducted by AICTE from 3rd to 7th January 2022.
- Attended a national-level workshop on "Internet of Things" organized by ATAL Academy from 17th to 21st January 2022.
- Participated in a national workshop titled "The Leaders Secret" conducted by Saveetha Engineering College on 5th January 2022.
- Attended a national workshop on "Assessment Planning for Outcome-Based Education" organized by IIT Madras on 21st February 2020.
- Participated in a national-level seminar titled "Quality Assessment on Pavement Materials and Bituminous Mix Design" conducted by SSE on 9th August 2019.
- Attended the 4th International Conference on "Bio-energy, Environment & Sustainable Technologies" organized by Arunai Engineering College on 28th January 2019.
- Participated in the IUCEE International Engineering Educator Pre-Certification Workshop held from January to July 2019.
- Attended a three-day International Engineering Educator Pre-Certification Workshop organized by IUCEE starting from 11th December 2018.
- Participated in a three-day Faculty Development Programme on "Teaching Learning Centre" organized by IIT Madras starting from 22nd November 2018.
- Attended a national workshop on "Engineering Instruments and Applications" conducted by Saveetha Engineering College on 31st August 2018.
- Participated in a pre-conference workshop on "Smart Structures and Systems" conducted by Saveetha Engineering College on 12th February 2018.
- Attended a national-level workshop on "Skill Development in Research, Projects and Patent Filing" organized by Saveetha Engineering College on 17th February 2018.
- Participated in a national workshop on "Outcome-based Education through ICT" conducted by NITTTR on 5th March 2018.
- Attended a national workshop on "Implementation of Industrial IoT" organized by NI on 3rd April 2018.
- Participated in the First International Conference on "Instrumentation, Electrical, and Electronics Engineering" organized by Saveetha Engineering College, Chennai, on 31st March 2017.
- Attended a one-day national seminar on "Recent Analytical Techniques in Research Areas of Chemistry" conducted by Saveetha Engineering College on 3rd March 2017.
- Participated in a one-day hands-on training on "LATEX" conducted by Saveetha Engineering College on 4th February 2017.
- Attended a two-day FDP on "Engineering Graphics" organized by Saveetha Engineering College from 4th to 5th August 2016.
- Participated in a two-day national-level workshop on "ANSYS for Civil Engineers" conducted by the Department of Civil Engineering, Saveetha School of Engineering, in March 2016.
- Attended an online workshop on "Education Technology for Engineering Teachers" organized by IIT Bombay in March 2016.

- Participated in the ISTE STTP Workshop on "Structural Engineering" conducted by IIT Kharagpur and Saveetha Engineering College from December 2015 to January 2016.
- Attended a one-day workshop on "Queueing Theory" conducted by the Department of Mathematics, Saveetha Engineering College, on 27th November 2015.
- Participated in a two-day Faculty Development Workshop on "Engineering Graphics" organized by Oxford University Press India and Saveetha Engineering College, Chennai, from 31st July to 1st August 2015.
- Attended a two-week ISTE STTP on "Environmental Studies" organized by IIT Bombay and Saveetha Engineering College, Chennai, from 2nd to 12th June 2015.
- Participated in an ISTE workshop on "Fluid Mechanics" held in May 2014.
- Attended a national workshop on "Hybrid Renewable Energy System" organized by DST from 19th to 21st February 2014.
- Participated in an FDP on "Engineering Mechanics" organized by IIT Bombay and Saveetha Engineering College from 26th November to 6th December 2013.
- Attended a short-term course on "Theory & Advanced Practices in Construction Project Management" conducted by ISTE on 4th March 2013.
- Participated in a national seminar on "Recent Trends in Seismic Resistant Design" held on 22nd February 2013.
- Attended a workshop on "BIM for Construction" organized by ICT Academy on 28th January 2013.
- Participated in an ISTE workshop on "Engineering Thermodynamics" organized by ICT (MHRD) from 11th to 21st December 2012.
- Attended a national seminar on "Opportunities and Challenges for Self-Consolidating Concrete in Highway Structures" conducted by Kongu Engineering College, Perundurai, on 22nd December 2012.
- Participated in a two-day national workshop on "Opportunities in Non-Destructive Testing" organized by Sathyabama University from 28th to 29th November 2012.
- Coastal Pollution Management Plan in Odisha Coast, International Conference on Recent Innovations in Civil Engineering, Saveetha Engineering College (2019).
- Assessing the Effects of Industrial Effluents on Environment in Vellore, 4th International Conference on Bio-energy, Environment & Sustainable Technologies, Arunai Engineering College.
- Productivity Improvement Study in a Manufacturing Enterprises by Implementing Agile Principles, National Conference on Recent Advancements in Mechanical Engineering, Rajalakshmi Engineering College.

#### **PROFESSIONAL MEMBERSHIPS:**

- Life Member in Indian Society for Technical Education

#### **OTHER DETAILS (If any):**

##### **Working Papers:**

- Removal of heavy metals for wastewater
- Alternate material for construction purpose

##### **Work in Progress:**

- Removal of heavy metals from wastewater