


**SRI SAIRAM ENGINEERING COLLEGE  
DEPARTMENT OF CIVIL ENGINEERING**

<b>Name &amp; Photo</b>	<div>  </div> <p><b>Ms. M.SIVARANJANI</b></p>
<b>Designation</b>	ASSOCIATE PROFESSOR
<b>Qualification</b>	B.E., M.E.,(Ph.D)
<b>Area Of Specialization</b>	STRUCTURAL ENGINEERING
<b>Experience</b>	<b>Teaching:</b> <b>UG:15 Years</b> <b>PG: NIL</b> <b>Industry: NIL</b>
<b>Number Of Workshops/Conferences/ FDP Attended</b>	<b>Workshop:</b> <b>National-4</b> <b>International-NIL</b> <b>Conference:</b> <b>National-1</b> <b>International- 3</b> <b>FDP: 35</b> <b>STTP: 2</b>
<b>Research Guidance</b>	NIL
<b>Publication</b>	<b>Journals:</b> <b>International- 5</b> <b>National - 5</b>
<b>Patent</b>	<b>11-published</b>
<b>E-Mail</b>	sivaranjani.civil@sairam.edu.in
<b>Membership</b>	ICI ISTE IEI IEEE
<b>Achievements</b>	UNIVERSITY RANK HOLDER IN PG

### **WORKSHOP/CONFERENCES/ FDP /NITTT/NPTEL Attended:**

- + Completed **One-Day Apple Teacher Training Workshop** at Sri Sairam Engineering College on **27.11.2025**.
- + Completed **One-Day Workshop on “Application of AI in Civil Engineering”** on **17.08.2024**.
- + Completed **Five-Day FDP on Geotechnical Engineering Practices**, conducted by Ballari Institute of Technology and Management, from **18.06.2024 to 22.06.2024**.
- + Completed **Five-Day FDP on Futuristic Scope in Civil Engineering** from **15.01.2024 to 20.01.2024**.
- + Completed **Seven-Day FDP on “Essential Skills for Professional Development in Higher Education”**, organized by Star International Foundation for Research and Education, from **01.07.2024 to 07.07.2024**.
- + Completed **Seven-Day FDP on “Recent Trends in Civil Engineering”**, organized by the Department of Civil Engineering, from **28.02.2022 to 05.03.2022**.
- + Attended **Five-Day Online FDP on “Inculcating Universal Human Values in Technical Education”**, organized by AICTE, from **12.07.2021 to 16.07.2021**.
- + Attended **ATAL Online FDP on “Recent Advances in Forensic Analysis in Civil Engineering”**, conducted by Dr. S. & S. S. Ghandhy Government Engineering College, Surat, from **27.09.2021 to 01.10.2021**.
- + Attended **ATAL Online FDP on “Sustainable Practices for Conservation and Management of Water”**, conducted by University Institute of Technology, Rajiv Gandhi Technical University, from **04.10.2021 to 08.10.2021**.
- + Attended **ATAL Online FDP on “Recent Trends in Renewable Energy”**, conducted by University Institute of Technology, Rajiv Gandhi Technical University, from **20.09.2021 to 24.09.2021**.
- + Attended **ATAL Online FDP on “Environmental Geotechnology”**, conducted by National Institute of Technology Karnataka, Surathkal, from **04.01.2021 to 08.01.2021**.
- + Attended **ATAL Online FDP on “Waste Technology”**, conducted by National Institute of Technology Durgapur, from **18.01.2021 to 22.01.2021**.
- + Attended **ATAL Online FDP on “Earthquake Engineering”**, conducted by National Institute of Technical Teachers Training and Research (NITTTR), Chennai, from **21.09.2020 to 25.09.2020**.
- + Attended **ATAL Online FDP on “Construction Technology”**, conducted by Rajiv Gandhi University of Knowledge Technologies (RGUKT), from **07.09.2020 to 11.09.2020**.
- + Attended **FDP on “Modern House Design in Revit Architecture”**, conducted by ICT Academy, from **06.05.2020 to 12.05.2020**.

- ✚ Attended **Online FDP Expert Lectures on “Foundation Engineering, Fluid Mechanics and Structural Design for Civil Engineering”** at Valliammai Engineering College, from **11.05.2020 to 15.05.2020**.
- ✚ Attended **Five-Day FDP Webinar on “Advancement in Concrete Technology”** at Kongu Engineering College, from **12.05.2020 to 16.05.2020**.
- ✚ Attended **Seven-Day FDP on “Advanced Technologies in Infrastructure Development”**, conducted by SRM Easwari Engineering College, from **13.05.2020 to 19.05.2020**.
- ✚ Successfully participated in **Indo–China International Webinar Series**, jointly organized by Shantou University, Vardhman College of Engineering (Hyderabad), Indian Geotechnical Society Surat Chapter, SVNIT Surat, and Qingdao University of Technology (China), from **08.05.2020 to 19.05.2020**.
- ✚ Attended **National Level Seminar on “Earthquake Resistant Structures”**, organized by S.A. Engineering College, on **13.05.2020**.
- ✚ Attended **Webinar on “Environmental Impact Assessment and Its Legal Aspects”** on **06.05.2020**, and **Webinar on “Handling Solid Organic Waste – Waste to Energy (ANDICOS)”** on **11.05.2020**, organized by B.S. Abdur Rahman Crescent Institute of Science and Technology.
- ✚ Participated in **One-Day Workshop on “Sustainable Practices in Municipal Solid Waste Management”** at M. Kumarasamy College of Engineering, Karur, on **22.02.2020**.
- ✚ Attended **Three-Day Course on “Engineering of Precast Concrete for Mass Housing”** at CSIR–Structural Engineering Research Centre (SERC), Chennai, from **25.03.2020 to 27.03.2020**.
- ✚ Participated in **Online Super Session on “The Power of a Teacher”**, conducted by ICT Academy, on **04.05.2020**.
- ✚ Participated in **Online Session on “Detailing of Reinforcement”**, conducted by Adithya Institute of Technology, on **06.05.2020**.
- ✚ Attended **Webinar on “Tertiary Treatment of Sewage Using Disc Filters”**, organized by B.S. Abdur Rahman Crescent Institute of Science and Technology, on **09.05.2020**.
- ✚ Participated in **Webinar on “Planning for Building Construction as per Tamil Nadu Combined Development and Building Rules, 2019”**, organized by Francis Engineering College, Tirunelveli, on **15.05.2020**.
- ✚ Attended **Webinar on “Ready-Mixed Concrete Production Process: Challenges and Remedies”**, organized by ICI Bangalore, on **18.05.2020**.
- ✚ Participated and **Presented a Paper titled “Alloy Steel Reinforced Column”** at an **International Conference** held at JPR Engineering College in **2019**.

- ✚ Attended **Quality Management System (ISO) and Audit Training** at Sri Sairam Engineering College in **June 2018**.
- ✚ Attended **FDP on “Next-Gen Teaching Methodology”** at Sri Sairam Engineering College.
- ✚ Attended **Workshop on “Environmental and Sustainable Development”** at Sri Sairam Engineering College in **2013**.
- ✚ Attended **Seminar on “Emerging Trends in Civil Engineering”** at Sri Sairam Engineering College in **2012**.

**Papers Presented In various National & International Journals:**

1. Published a paper titled " Experimental Investigation on Durability Properties of Geopolymer Matrix concrete" in March - April 2020 ISSN: 0193-4120 Page No. 8374-8386.
2. Published a paper titled "Strength and Microstructure of Redmud Based Geopolymer Concrete- A Review " in March - April 2020 ISSN: 0193-4120 Page No. 8387-8393
3. Published a paper titled "Alloy Steel Reinforced Column" International journal of applied Engineering Research ISSN 0973-4562 Volume 14 Number 11, 2019 Special Issue.
4. Published a paper titled "Experimental Studies On the Structural behaviour of limestone calcined clay concrete" in UGC Journal.
5. Enhancing the Mechanical Characteristics of the Traditional Concrete with the Steel Scrap Impact of BN and WC particulate reinforcements on mechanical properties and damage development of AL-2048 Metal matrix composites.
6. Published a paper titled Use Of Waste Foundry Sand In Place Of Conventional Sand For Paver Blocks.
7. Published a paper titled Removal Of Toxic Metals From Electroplating Industrial Waste Water Using Groundnut Shell And Coconut Shell.
8. Published a paper titled Enhancing the Mechanical Characteristics of the Traditional Concrete with the Steel Scrap.
9. Published a paper titled Aggressiveness of soils and water in contact with buried concrete structures.
10. Published a paper titled Implementing federated learning in diverse urban sensing systems to improve public safety.

**Patent details:**

- 1.Wind powered operated pump.
- 2.Utilization of textile sludge in the manufacturing of bricks.
- 3.Manufacturing of plastic Blocks-PLOX.
- 4.A system with green materials for construction of sustainable green buildings.
- 5.A System for estimation of catchment scale moisture from soil.
- 6.Piezo electric generating tiles.
- 7.An IOT based system to remotely monitor building structures.
- 8.Eco-friendly roof tile using agricultural and plastic waste.
- 9.Removal of arsenic from contaminated water using neem and tulsi leaf powder as filter bed.