

RESUME



E. SENTHILKUMAR M.E., (Ph.D.), MISTE.

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Namakkal- 637408.

OBJECTIVE:

To pursue a challenging career in the field of civil engineering by being associated with an esteemed organization and strive for the development of an organization.

ACADEMIC PROFILE:

COURSE	NAME OF INSTITUTION	PERCENTAGE	YEAR OF PASSING
Ph.D	Anna University (Part-Time)	Confirmation Completed waiting for synopsis submission	Pursuing
M.E-Structural Engineering	Thiruvalluvar College of Engineering and Technology	81.9	2016
B.E. – Civil Engineering	Arunai Engineering college	81.7	2013
HSC	N.L.C. Hr. Sec. School	81.5	2009
SSLC	N.L.C. Hr. Sec. School	78.2	2007

WORK EXPERIENCE:

Position held	Name of the College	Period of Work		
		From	To	No. of years
Lecturer	Meenakshi College of Engineering, Chennai	19-09-2013	23-09-2014	1 year
Assistant Professor	Meenakshi College of Engineering, Chennai	02-07-2016	Till date	9 years 8 months
TOTAL				10 years 8 months

JOURNALS PUBLISHED:

Title	Journal name	Volume, Issue, Page No.	Month & Year	Scopus/SCI/SCIE Indexed
Study on flowable concrete From Marsh Cone Test	IJSRET	Volume06-Issue04, pp.01-06 ISSN No:2454-5031	March – April 2020	Scopus
Enhancing Cement Hydration and Concrete Properties: A Study on Self-Curing Concrete with Polyethylene Glycol PEG 400	IJSR	Volume 12 Issue 8, ISSN No: 2319-7064	August 2023	Scopus
Experimental Research on the Performance of Blended Clay Bricks	IJAEM	Volume 5, Issue 8 Aug 2023, pp: 721-728	August 2023	Scopus
Experimental study on efficiency of spliced rebars by different types of welded joints	Gradiva review journal	Volume 9 issue 8 2023 ISSN No: 0363-8057	August 2023	Scopus
Pedestrian Footpath Geometric Design at Transit Stations Using Real-Time Trajectory data for Capacity and LOS Evaluation	Revista Materia	In Progress	December 2025	SCI

PATENTS PUBLISHED:

Title	Application Number and details	Publication date	Author Name
AI-Powered Image Segmentation and Cancer Classification with Concrete Foundation-Based Environmental Science	202541020657 A No. of Pages: 9 No. of Claims: 8	21/03/2025	S.P.Manikandan E.Senthilkumar Ankit D. Oza Dharani M Madhurikkha S A Subash Chandar Raja E John De Britto C
Machine learning and python-based electric ground compaction monitoring device for civil construction sites	202541070876 A No. of Pages: 8 No. of Claims: 7	01/08/2025	E.Senthilkumar M.Karunakaran V.Kavitha Dr.Ankit D.Oza Mahendiran C.R Dr.P.Nisha Dr.S.Madhurikkha Dr.C.Kannan John De Britto

BOOKS PUBLISHED:

Title	ISBN	Publisher details	Author Name
AI Driven Material Science for Sustainable Construction	978-620-8-44198-2 April 2025	Lambert Academic Publishing 120, High Road, East Finchly, London, N2 9ED, United Kingdom	Vishnuvardhan S Senthilkumar E Nirmalambal U
Engineering Mechanics	978-93-6260-410-1 April 2025	Charulatha Publications	E.Senthilkumar N.Ravikumar Dr.M.Ponni

SEMINAR PRESENTED:

Title	Institution	Position Held	Duration
AI & IOT in Environmental Assessment	St.Peters Institute of Higher Education and Research	Resource Person	06.02.2026

WORKSHOPS ATTENDED:

Name of the Program	Institution	Duration
One day workshop on “Solid waste management”	Excel college of technology, Namakkal	28-01-2012
National Level workshop on “Total Station & GPS”	Hindustan College of Engineering and Technology	11-02-2012
Design and detailing of Beam- Column Joints	Anna university, Guindy, Chennai.	15-03-2012 to 17-03-2012
One day workshop on sketch up software	Thiruvalluvar College of Engineering and technology	27-02-2016
Ground water modelling	St.Joseph’s Institute of Technology	02-11-2016
A two-day national level workshop on Research Methodology	Meenakshi college of Engineering	21-12-2016 and 22-12-2016
“Modern surveying” from Ladder survey institute of Technology, Nerukundrum, Chennai	Meenakshi college of Engineering	05-09-2019 and 06-09-2019
“Land survey and quantity Survey” From salem survey Institute, Salem	Meenakshi college of Engineering	29-01-2020 and 30-01-2020
Panel Discussion conducted on “Azadi Ka Amrit Mahotsav” organized by Central Water Commission	Meenakshi college of Engineering	28-10-2021

One day Workshop on Virtual Labs	Meenakshi college of engineering collaboration with Amrita Virtual Labs	28-12-2023
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CONFERENCES ATTENDED:

Name of the Program	Institution	Duration
Nano technology in civil engineering	Tagore Institute of Engineering and Technology, Attur, Salem	17-02-2012
2 nd International Conference on Advance Research and Innovation in Engineering, Science, Technology and Management	ARS college of engineering	09-04-2016

FACULTY DEVELOPMENT PROGRAMME ATTENDED:

Name of the Program	Institution	Dates	Duration
Outcome based education system and Values of NBA	Meenakshi college of Engineering	20-06-2016 to 21-06-2016	2 Days
CE6602-Structuralengineering- II	Panimalar engineering college	5 th , 9 th , 11 th , 13 th 15 th Dec 2016	5 Days
Evolution of teaching learning Process – POST Covid 19	Bharath institute of higher Education and Research	11-05-2020 to 15-05-2020	5 Days
Sustainable buildings and future Technologies	CSIR-CBRI Webinar Series3.0, Roorkee	13-07-2020 to 17-07-2020	5 Days
Landslide disasters	CSIR-CBRI Webinar Series4.0, Roorkee	04-08-2020 to 08-08-2020	5 Days
Advanced course on green Building Materials	CSIR-CBRI	26-04-2021 to 28-04-2021	3 Days
FDP ON FUSION 360	KCG College Of Technology	08-11-2023 to 10-11-2023	3 Days
Sustainable Cities and Communities	Easwari Engineering College, Chennai (by NITTR)	08-01-2024 to 12-01-2024	5 Days
Emerging Trends in Sustainable and Resilient infrastructure	Toch H Institute of science and technology	22-01-2024 to 27-01-2024	6 Days
Resilient infrastructure for cyclone prone areas	SSM institute of engineering and technology(ATAL-AICTE)	03-02-2025 to 08-02-2025	6 Days
Building Information Modelling	Naan Mudhalvan- SRM TRP Engineering College, Trichy	10-02-2025 to 16-02-2025	6 Days
Modern Construction Materials	SWAYAM-NPTEL-AICTE	Jan-Apr 2025	12 Weeks

A recent trends on sustainable practices of water management and soil conservation	Meenakshi college of engineering (ATAL-AICTE)	23-06-2025 to 28-06-2025	6 Days
Sustainable building design	L&T Manapakkam, Chennai (Naan Mudhalvan)	28-07-2025 to 02-08-2025	6 Days
Emerging trends in civil engineering	Sri venkateswara college of engineering	13-10-2025 to 17-10-2025	5 Days
Building Information Modelling Level-2	MIT, Chrompet, Chennai (Naan Mudhalvan)	29-12-2025 to 04-01-2026	6 Days

SEMINARS ATTENDED:

Name of the Program	Institution	Duration
Injection grouting for concrete Repair	Kerala Highway Research Institute association with IIT- Madras	23-04-2020
Design of Sustainable Rigid Pavements: An FRC experience		25-04-2020
Design and performance of industrial Concrete floors (Indian guidelines & Practices: Do's & Don'ts)		01-05-2020

RESEARCH EXPOSURE:

- ✓ B.E. Phase-I project in “**Design and Analysis of Slipform for chimney**” in **Arunai Engineering College**, Thiruvannamalai
- ✓ B.E. Phase-II project in “**Construction scheduling and estimation of apartment building**” in L&T limited (Pallavaram), **Arunai Engineering College**, Thiruvannamalai
- ✓ M.E. Phase-I & Phase-II project in “**Design and Analysis of Radial Pattern Bus stand**” in **Thiruvalluvar college of Engineering and Technology**, Vandavasi.
- ✓ Pursuing my Part time Ph.D in faculty of civil engineering at Anna University under the title “**Experimental Investigation on Flexural Behaviour of Partial Replacement of Fine Aggregate by Plastic Waste in Concrete**”

RESPONSIBILITIES HELD:

- Department Placement Co-ordinator
- College Exam-Cell assistant Co-ordinator
- International, National workshop assistant Co-ordinator
- Acted as Board member for syllabus setting in Govt. polytechnic institution
- Department IQAC Co-ordinator

- Question Paper Scrutiny committee members for various universities
- Department Alumni Co-ordinator

SUBJECTS HANDLED:

- Engineering Graphics
- Engineering Mechanics
- Surveying and levelling
- Strength of materials– I & II
- Soil Mechanics
- Construction techniques and practices
- Structural analysis –I & II
- Design of reinforced concrete and brick masonry
- Air pollution and control engineering
- Design of steel structures
- Airports and Harbours
- Estimation, Costing and Valuation Engineering
- Repair and rehabilitation of structures
- Prefabricated structures
- Railway, Airport and Harbor engineering
- Surveying and leveling laboratory
- Strength of materials laboratory
- Material testing laboratory

PROFESSIONAL BODY MEMBERSHIP:

- Life time Member of Indian Society for Technical Education (ISTE)
- Life time Member of International Association of Engineers (IAENG)

EXTRA CURRICULAR ACTIVITIES:

I have participated on the National Service Scheme (NSS) and awarded ‘A’ Certificate by the directorate of school education.

I have got Best Teacher Award in the year 2017 for outstanding contribution towards the field of education.

PERSONAL SKILLS:

- Commitment towards work
- Capable to work under any Environment
- Leadership quality

PERSONAL PROFILE:

Father's name : D. Elumalai
Mother's name : E. Alamelu Mangai
Date of birth : 19.06.1992
Gender : Male
Religion : Hindu
Community/Caste : BC/Yadhava
Marital status : Married
Nationality : Indian

LANGUAGE PROFICIENCY:

Tamil, English (Read, Write and Speak)

DECLARATION:

I declare that the details furnished above are true to the best of my knowledge.

Place: Rasipuram

Date: Feb 2026

(Senthilkumar.E)