

## CURRICULUM VITAE

**Dr. S. Santhosh, B.E (Civil.), M.E (Struct Engg.), Ph.D. (Engg.),**  
 No.5/27, Sorakkalpettai Village,  
 Vandranthangal Panchayat,  
 Periya Pudur PO, Katpadi Taluk,  
 Vellore District-632 053  
 Tamil Nadu, India.  
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### OBJECTIVES

- To associate myself with a reputed academic institution that values excellence in education, and to secure a faculty position where my hard work, dedication, and continuous learning can contribute meaningfully to the growth of both students and the organization.
- To effectively plan and execute tasks with precision, while demonstrating strong leadership within the academic community by providing motivation, guidance and clear communication to foster collaboration and achieve institutional goals.
- To meet institutional expectations and contribute to academic excellence without compromising the quality of work, while actively engaging in impactful and leading-edge research.

### ACADEMIC QUALIFICATIONS

Sl. No.	Course / Branch (With Specialization)	University / Board	Month & Year of Passing	FT/PT/ DE*	% Mark & Class
1	Ph.D. (Civil Engineering)	Dr. M G R Educational and Research Institute (Deemed to be University)	Jan 2018 - Aug 2023	PT	9.0 CGPA 1 <sup>st</sup> Class
2	M.E. (Structural Engineering)	GIT, Melvisharam (Anna University)	Jun 2014 - Jun 2016	FT	7.71 CGPA 1 <sup>st</sup> Class
3	B.E. (Civil Engineering)	SBCEC, Arni (Anna University)	Jul 2009 - Apr 2013	FT	7.13 CGPA 1 <sup>st</sup> Class
4	HSC	Govt Boys Hr Sec School Katpadi, State Board	May 2009	FT	66.5% 1 <sup>st</sup> Class
5	SSLC	Govt Boys Hr Sec School Katpadi, State Board	May 2007	FT	62.2% 1 <sup>st</sup> Class

\*Note: FT/PT/DE - Full Time (FT), Part Time (PT), Distance Education (DE)

## Ph.D.-TITLE OF THESIS

### "Effect of Oil Palm Shell in Light Weight Concrete Using M-Sand as Fine Aggregate"

## EXPERIENCE

**Total Experience: 10 Years 04 Months 21 Days**

Sl. No.	DESIGNATION	NAME OF THE INSTITUTION / INDUSTRY	PERIOD		Total Service		
			From	To	Years	Months	Days
01	Assistant Professor	Adhiparaskthi College of Engineering, Kalavai, Ranipet Dist - 632506	22.08.2024	Till Now	01	02	21
02	Assistant Professor & HOD	Sri Balaji Chockalingam Engineering College, Arni - 632 317	22.06.2016	31.07.2024	08	01	10
03	Lecturer	Sri Balaji Chockalingam Engineering College, Arni - 632 317	05.03.2013	26.03.2014	01	00	22
<b>Total Experience</b>					<b>10</b>	<b>04</b>	<b>21</b>

## FIELD(S) OF SPECIALISATION

Structural Engg, Construction and Management Engg, Geotechnical Engg, Transport Engg, Environmental Engg, Airports, Coastal & Marine Structures, Building, Bridges, Energy & Power Plants, Tunnels, Railways, Highways

## RESEARCH GUIDANCE

U.G. : U.G. Completed - 62 Scholars

## PATENT

- Indian Design Patent for "Portable Wind Tunnel Device for Airflow Testing"
- Indian Design Patent for "Vibration Analysis Device for Rotating Machinery"
- Indian Design Patent for "Spiral Tube Heat Exchanger"

- Indian Design Patent for “Ai-Based Robotic System for Determining Crop Yield”
- U.K Patent for “Hydraulic Robot for Civil Construction”
- Design Patent for “Device to Detect Construction Failure”
- Design Patent for “Hand Held Cement Quality analyzing Device”
- Design Patent for “Safety Helmet with Camera and Solar Powered Fan for Constructions Workers”

### BOOK PUBLICATIONS

- Dr.S.Santhosh (2025) “*Essential Concepts in Structural Engineering*”, Vinsa Publications, ISBN: 978-93-48460-05-9
- Dr.S.Santhosh, Er.R.Haripraba (2025) “*Energy Efficient Buildings*”, RDG Scientific Publications, ISBN: 978-81-982284-8-2
- Dr.S.Santhosh (2024) “*Sustainable Engineering with AI: Innovations in Civil Design and Construction*”, Vinsa Publications, ISBN: 978-93-48460-13-4
- Dr.S.Santhosh, Er.P.Radha (2024) “*Cost Control in Building Design and Construction*”, Cosmas Publications, ISBN: 978-93-6096-129-9

### SOFTWARE SKILLS

- MASTER DIPLOMA IN CIVILCAD (Auto CAD, Staad PRO, ANSYS, Revit)
- HONOURS DIPLOMA IN COMPUTER APPLICATION (HDCA)
- Completed TALLY at TCDS Computer Education

### MEMBERSHIP IN PROFESSIONAL BODIES

NAME OF SOCIETY	GRADE OF MEMBERSHIP
1. The Institution of Engineers (India) (MIE)	Member
2. Indian Society of Technical Education (MISTE)	Member
3. Institute For Science, Engineering & Technology Research (ISET)	Pro Member
4. Global Society for Technical Education (GSTE)	Life Member
5. International Association of Engineers (IAENG)	Life Member

## ADDITIONAL ACADEMIC INFORMATIONS

S. No.	INFORMATION
1.	<b>Coordinator</b> for ERP, Website, Events & Extra Curriculum
2.	<b>Coordinator</b> for "ECO CLUB" & Infrastructure Development
3.	<b>Joint Coordinator</b> for International & National Conferences
4.	<b>Coordinator</b> for ISO and NAAC
5.	<b>Anna university</b> Question Setting & Scrutiny committee member

## JOURNAL / RESEARCH PUBLICATIONS

- Dr.P.Ragunatha Pandiyan, **Dr.S.Santhosh**, Mrs.M.Megala and Mrs.P.Amudha (2025), 'Potassium Hydroxide-Enhanced Biochar-Infused Concrete Composites with Fly Ash for Advancing Net-Zero Buildings and Energy Storage Solutions', *Advanced Composite Materials – (SCI Journal) Submitted*
- **Dr.S.Santhosh**, Dr.P.Ragunatha Pandiyan, Dr.M.Samuel Thanaraj and Nalini Jebastina (2025), 'Triple Waste Aggregates Integration for Sustainable Self-Compacting Geopolymer Concrete: A Hybrid Intelligence Synergy', *Waste and Biomass Valorization – (SCI Journal) Accepted*
- **Dr.S.Santhosh**, Dr.P.Ragunatha Pandiyan, Sumit Das and N.Rishinath (2025), 'Probabilistic Forecasting and Explainable Modelling of Compressive Strength in Oil Palm Shell based Lightweight Concrete Using Deep Learning', *Waste and Biomass Valorization – (SCI Journal) Submitted*
- **Dr.S.Santhosh (et.al.)** (2025), 'Sustainable Development of Rice Husk Biochar and Bauhinia acuminata Fiber Reinforced Vinyl Ester Composite Rebar for Building Applications', *Journal of polymer Research - (SCI Journal) Submitted*
- **Dr.S.Santhosh**, Sumit Das and Nalini Jebastina (2025), 'Multi-Criteria Optimization of 3D Printable Concrete Mix Using Deep Learning and Design of Experiments', *MRS Communications - (SCI Journal) Submitted*

- **Dr.S.Santhosh (et.al.) (2025),** 'Sustainable Plastic Bricks: Enhancing Thermal Resistance and CO<sub>2</sub> Absorption', *Revista Materia-* (**WOS Journal**) **Submitted**
- **Dr.S.Santhosh (et.al.,) (2025),** 'Artificial Neural Networks (ANN) Approach for Prediction of Mechanical Properties of High Strength Concrete', *Revista Materia-* (**WOS Journal**) **Submitted**
- Dr. V. Murugesh, **Dr. S.Santhosh**, Sneha N, P. Manjula Unni, Dr.R.Thangaraj and M.Sadhasivam **(2023)**, 'An Anova-Based Numerical Analysis of WHA Partial Replacement Concrete', *International Journal of Membrane Science and Technology*, Vol. 10, No. 5, pp. 209 - 218 (**Scopus Indexed**)  
DOI: <https://doi.org/10.15379/ijmst.v10i5.2459>
- **S.Santhosh** and S.Arivalagan **(2023)**, 'Utilization of Oil Palm shell in Light Weight Reinforced Concrete', *European Chemical Bulletin*, Vol. 12, pp. 2305 - 2319 (**Scopus Indexed**) DOI: <https://www.eurchembull.com/archives/volume-12/issue-4/3024>
- **S. Santhosh** and S. Arivalagan **(2018)**, 'Characterization of M-Sand Concrete mix with partial replacement of coarse aggregate scrap tyre', *International Journal of Civil Engineering & Technology*, vol. 9, pp. 689 - 700 (**Scopus Indexed**)  
DOI: <http://iaeme.com/Home/issue/IJCIET?Volume=9&Issue=12>
- **S. Santhosh** and S. Arivalagan **(2018)**, 'Investigation of M-Sand Concrete Mix with Mineral Admixtures as partial replacement of cement', *International Journal of Civil Engineering & Technology*, vol. 9, pp. 712 - 719 (**Scopus Indexed**)  
DOI: <http://iaeme.com/Home/issue/IJCIET?Volume=9&Issue=12>
- **S. Santhosh**, P. Jagan and J. Priyanga **(2018)**, 'Analysis of Mechanical Properties on 3E-Materials with Blend Concrete', *International Journal of Civil Engineering & Technology*, vol. 9, pp. 1237 - 1248 (**Scopus Indexed**) DOI: [https://iaeme.com/MasterAdmin/Journal\\_uploads/IJCIET/VOLUME\\_9\\_ISSUE\\_12/IJCIET\\_09\\_12\\_126.pdf](https://iaeme.com/MasterAdmin/Journal_uploads/IJCIET/VOLUME_9_ISSUE_12/IJCIET_09_12_126.pdf)
- P. Jagan, **S. Santhosh** and J. Priyanga **(2018)**, 'Characteristics Study On 3E-Material of Construction Bricks', *International Journal of Civil Engineering & Technology*, vol. 9, pp. 701 - 711 (**Scopus Indexed**) DOI: [https://iaeme.com/MasterAdmin/Journal\\_uploads/IJCIET/VOLUME\\_9\\_ISSUE\\_12/IJCIET\\_09\\_12\\_074.pdf](https://iaeme.com/MasterAdmin/Journal_uploads/IJCIET/VOLUME_9_ISSUE_12/IJCIET_09_12_074.pdf)

- **S. Santhosh (2018)**, 'Characteristic Studies of Ground Granulated Blast Furnace Slag and Fly Ash with Blended Concrete', *International Research Journal in Advanced Engineering and Technology*, vol. 4, pp. 3469 - 3474 DOI: <http://www.irjaet.com/Volume4-Issue-2/paper102.pdf>

### PAPER PRESENTED IN CONFERENCES

- **S.Santhosh (2025)**, "Indian Knowledge Systems Towards Future Solutions and for Sustainable Development", Two days **National Conference on Road Map to Viksit Bharat – A Multi-Disciplinary Approach** Conducted on 26<sup>th</sup> & 27<sup>th</sup> July 2025, at VIT Chennai.
- **S.Santhosh (et.al.,) (2025)**, "Nano electronic Sensors for Real-Time Health and Environmental Monitoring", IEEE 5th **International Conference on Intelligent Technologies (CONIT)**, Hubbali, Karnataka, India.
- **S.Santhosh (2024)**, "Analytical Studies on light weight Concrete using Oil Palm Shell at Optimum Replacement levels", **National Conference on A Smart and Innovative Technologies in Civil Engineering (PAALAM'24)**, held on 12<sup>th</sup> March, 2024 at Dr.M.G.R. Educational & Research Institute, Maduravoyal.
- **S.Santhosh (2022)**, "Experimental Study on Partial Replacement of Fine Aggregate Using M-Sand with Crimped Steel Fibre", **International Conference on Advances in Civil Engineering (ICACE'22)**, held on 12<sup>th</sup> April, 2023 at JCT College of Engineering and Technology, Coimbatore.
- **S.Santhosh (2016)**, "Experimental study on Concrete blended with Ground Granulated Blast Furnace Slag & Fly Ash" **International Conference on Advanced in Engineering, Science and Technology (ICAEST'16)**, held on 3<sup>rd</sup> March, 2016 at SBM College of Engineering and Technology, Dindigul.

### AWARDS RECEIVED

Teaching Excellence Award (08/2025)

Sir.C.V. Raman Research Publication Premium Award (12/2017)

## ACHIEVEMENTS

- Participated in the IP Awareness Training program on “**National Intellectual Property Awareness Mission**” held on 04<sup>th</sup> Nov, 2025 organized by Intellectual Property office, India.
- Participated in the webinar on “**Lean Tools in Construction: Value Stream Mapping, 5S, Kaizen and Beyond**” held on 24<sup>th</sup> Sep, 2025 at CIET, Coimbatore.
- Participated in AICTE Training and Learning (ATAL) Academy Five-Days online Faculty Development Program (FDP) on “**Futuristic Manufacturing With 3d Printing and Digital Fabrication**” From 15<sup>th</sup> Sep to 20<sup>th</sup> Sep 2025, Organized by Adhi College of Engineering and Technology, Chennai.
- Participated in Five-Days online Faculty Development Program (FDP) on “**Next Gen Structural Modeling and Construction Planning with Tekla**” From 08<sup>th</sup> Sep to 12<sup>th</sup> Sep 2025, Organized by Sri Ranganathar Institute of Engineering and Technology, Coimbatore.
- Participated in the seminar on “**Carbon Capture, Utilization & Storage (CCUS): Innovations for a Net-Zero Future**” held on 11<sup>th</sup> Sep, 2025 at Coimbatore Institute of Engineering and Technology, Coimbatore.
- Participated in Faculty Development Program - Naan Mudhalvan Training of Trainers Program for “**Interior Design Techniques Demystified**” held between 28<sup>th</sup> Jul – 02<sup>nd</sup> Aug, 2025 at Anna University.
- Participated in one-day Seminar on “**Advances in Microstructural Analysis of Durable and Sustainable Concrete**”, held on 30<sup>th</sup> July 2025. organized by the *Institution of Engineers (India)* – Kattankulathur Local Centre in association with the Department of Civil Engineering at SRM Institute of Science and Technology, Kattankulathur.
- Participated in Five-Days online Faculty Development Program (FDP) on “**Advancement and Emerging Technologies in Mechanical & Aerospace Engineering**” From 23<sup>rd</sup> Jun to 27<sup>th</sup> Jun 2025, Organized by Global Society for Technical Education in Association with Wipro 3D.

- Participated in Short-Term Training Program on “**Smart Infrastructure & IoT: A Next -Gen Approach in Civil Engineering**” From 26<sup>th</sup> May to 31<sup>st</sup> May 2025, at Coimbatore Institute of Engineering & Technology, Coimbatore.
- Participated in “**PTE Academic English Exams for Higher Studies Abroad**” held on 07<sup>th</sup> May, 2025, Organized by Global Society for Technical Education.
- Participated in One Day Workshop on “**Hands on Experience with Different types of NDT Equipment**” held on 02<sup>nd</sup> May, 2025 at VIT University, Vellore.
- Participated in One Day Faculty Development Program (FDP) on “**Innovation Mindset Among Students**” Conducted by Incubation Cell on 15<sup>th</sup> Mar, 2025 at Adhiparasakthi College of Engineering, Kalavai.
- Participated in Five-Days online Faculty Development Program (FDP) on “**Advanced Technologies and Trends in Robotics**” From 24<sup>th</sup> Feb to 28<sup>th</sup> Feb 2025, held at SR University, Warangal, India.
- Participated in Faculty Development Program - Naan Mudhalvan Training of Trainers Program for “**3D Modelling Using Terrain LIDAR System**” held between 10<sup>th</sup> – 16<sup>th</sup> February 2025 at University College of Engineering, Villupuram.
- Participated in One Day Workshop on “**Damage Assessments of RC Structures by NDT Methods**” held on 15<sup>th</sup> Feb, 2025 at VIT University, Vellore.
- Participated in One-week International Virtual Faculty Development Program (FDP) on “**ADVANCES IN CIVIL ENGINEERING (ACE'25)**” From 20<sup>th</sup> Jan to 26<sup>th</sup> Jan 2025, at JCT College of Engineering & Technology, Coimbatore.
- Participated in the webinar on “**The Eyes in The Sky: How Remote Sensing Helps in Understanding Coastal Process**” held on 4<sup>th</sup> Jan, 2025 at J.K CAD Infotech Trichy.
- Attended webinar for Faculty Development Program on “**Principles of Outcome Based Education**” held on 04<sup>th</sup> Jan, 2025, at vmedulife software, Pune.
- Presented Lecture Program on “**Basic Scheme and Applications of Energy Conservation – 2024**” held on 19<sup>th</sup> Dec, 2024 at IEI Ranipet Local Centre (BHEL).

- Participated in Six-Days online Faculty Development Program (FDP) on “**AI Tools in Action: Research Writing & Real-World Solutions through Hands-On Learning**” From 16<sup>th</sup> Dec to 21<sup>st</sup> Dec 2024, at KG Reddy College of Engineering & Technology, Hyderabad.
- Participated in Five-Days online Faculty Development Program (FDP) on “**Future Prospects in Renewable Energy and Waste Heat Recovery Systems**” From 17<sup>th</sup> Dec to 21<sup>st</sup> Dec 2024, at Dream Institute of Technology, Kolkata.
- Participated in Six-Day Faculty Development Program (FDP) on “**Innovations in Energy, Environmental Sustainability & Material Science**” From 18<sup>th</sup> Nov to 23<sup>rd</sup> Nov 2024, at Sri Ranganathar Institute of Engineering & Technology, Athipalayam, Coimbatore.
- Participated in One week Faculty Development Program (FDP) on “**Natural Fiber Composites and Additive Manufacturing**” From 18<sup>th</sup> Nov to 23<sup>rd</sup> Nov 2024, at Easwari Engineering College, Chennai.
- Participated in One Day Workshop on “**Biodegradable and Recyclable Construction Materials for Sustainable Future**” held on 5<sup>th</sup> Nov, 2024 at SRM Institute of Science & Technology, Kattankulathur.
- Participated in all India seminar on “**Novel Strategies and Biodegradation of Polymers Using Microorganisms for Plastic Waste Management**” held on 24<sup>th</sup> Oct 2024, at M.A.M College of Engineering, Trichy.
- Participated in Six-Day Faculty Development Program (FDP) on “**Next-Gen Educators: Harnessing the power of Machine Learning**” From 25<sup>th</sup> Sep to 01<sup>st</sup> Oct 2024, at Jeppiaar Institute of Technology, Sunguvachatram.
- Participated in 2<sup>nd</sup> International 5-Day Faculty Development Program on “**Sustainability & Research in Modern Mechanical Engineering**” From 23<sup>rd</sup> Sep to 27<sup>th</sup> Sep 2024, at Madanapalle Institute of Technology & Science, Andhra Pradesh.
- Participated in One Day online Workshop on “**Quick and Easy Design of Building**” held on 8<sup>th</sup> Sep, 2024 at S.A Engineering College, Chennai.
- Participated in one-week International Faculty Development Program on “**ADVANCES IN CIVIL ENGINEERING**” From 9<sup>th</sup> Jan to 14<sup>th</sup> Jan 2023, at JCT College of Engineering and Technology, Coimbatore.

- Participated Faculty Development Program in L & T Edu Tech - Naan Mudhalvan Training of Trainers Program for “**High Rise Building Design**” held between 19<sup>th</sup> - 22<sup>nd</sup> September 2022 Anna University, Guindy.
- Participated in IMPACT LECTURE SERIES -I of webinar on “**Earn while you are learn**” organized by Institute Innovation Cell, held on 20<sup>th</sup> Jul 2022 at Sri Balaji Chockalingam Engineering College, Arni.
- Participated in One Day National Level Workshop on “**Excerpts of Research Methodology and Processes**” held on 26<sup>th</sup> February 2018 at Sri Balaji Chockalingam Engineering College, Arni.
- Attended a one-day National Level Workshop on “**DISASTER MANAGEMENT AND MITIGATION**” on 5<sup>th</sup> Oct 2018 at Dr. N.G.P Institute of Technology, Coimbatore.
- Participated in the webinar on “**JOINTS IN STRUCTURAL ELEMENTS**” on 1<sup>st</sup> May 2020 at Adithya Institute of Technology, Chennai.
- Participated in the webinar on “**POST COVID - 19: OPPORTUNITIES FOR ENGINEERS**” on 2<sup>nd</sup> May 2020 at Aalim Muhammed Salegh College of Engineering, Chennai.
- Completed the “**Faculty Awareness Programme on Outcome Based Education (OBE) and NBA Accreditation**” on 8<sup>th</sup> May 2020 at Sinhgad Institute of Technology and Science, Pune.
- Participated in the “**Novel COVID - 19 Awareness Quiz**” held on 8<sup>th</sup> May 2020 at St. PETERS Institute of Higher Education and research, Chennai.
- Attended the National Webinar on “**E-Learning & Tools for Effective Teaching and Learning**” held on 6<sup>th</sup> June 2020 at Voorhees College, Vellore.
- Undergone Implant Training in “**Under Ground Sewage System & Sewage Treatment Plant**” site held at Vellore City Municipal Corporation.

## AUTHOR ID

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ORCiD - <http://orcid.org/0009-0006-7339-8912>

Google Scholar - <https://scholar.google.com/citations?user=ElDEUAcAAAAJ&hl=en>

## REFERENCE

S.No	Name	Design	Organization Address	Mobile	E-Mail
1.	Dr.S.Arivalagan	Joint Registrar	Dr.M.G.R Educational & Research Institute, Maduravoyal, Chennai - 600095	9444738687	arivu357@gmail.com
2.	Dr.V.Thirunavukkarasu	Principal	Sri Balaji Chockalingam Engg College, Arni - 632317	9894329843	arasucit@gmail.com
3.	Dr.S.Nallusamy	Professor	Jadavpur University, Kolkata - 700032	9962306799	ksnallu@gmail.com
4.	Dr.V.Kandasamy	Principal	Dr.M.G.R Chockalingam Arts College, Arni- 632317	9842363361	kandasamy.arni@gmail.com
5.	Er.R.Ranjithkumar	Assistant Engineer	Tamil Nadu Housing Board, Thirumangalam, Chennai-600101	9942582085	rrkengineer@gmail.com
6.	Er.K.AhmedJalaaluddeen	Assistant Engineer	Highways Department Government of Tamilnadu	9940792308	er.ahmedjalaal@gmail.com

## **PERSONAL DETAILS**

Father's Name : S. Sekaran  
Mother's Name : S. Vani  
Date of Birth & Age : 07/07/1992 & 33 Years  
Nationality & Religion : Indian & Hindu  
Community : BC - Yadav  
Marital Status : Married  
Number of Dependents : 04  
Address for Communication (Res.) : No.5/27, Sorakkalpettai Village,  
Vandranthangal Panchayat,  
Periya Pudur Post,  
Katpadi Taluk,  
Vellore Dist. - 632059  
Conduct No : **+91-76393 43588, 96778 07376**  
Emergency Contact Person : Mrs.A. Indumathy (Wife)  
+91-8939783123, +91-7708061229  
E- Mail : **er.santhosh77@gmail.com**

### **Declaration**

The details furnished above are true and correct to the best of my knowledge and belief.

Date:

Yours faithfully,

Place:

**(Dr.S. SANTHOSH)**