

Dr.K.Vijaya Sundravel
2/5/75, Sangari main road,
Tharamangalam,
Salem District - 636502.
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Email: kvsajai@gmail.com



OBJECTIVE:

Seeking for a challenging position as a professional, where in given chance of proving my mettle the best. To accomplish my responsibilities to the best of my efficiency and to work hard to achieve individual, group and organizational objectives.

EDUCATIONAL BACKGROUND:

- ❖ **Ph.D in Civil Engineering**, Anna University, Chennai, TamilNadu, India. – June 2022.
- ❖ **Master Degree in Structural Engineering**, Annamalai University, Chidambaram, TamilNadu, India. – 2009-2011. (with 83.9%).
- ❖ **Bachelor Degree Civil Engineering** from Kumaraguru College of Technology, Coimbatore, TamilNadu, India. – 2005-2008.(with 66.5%).
- ❖ **Diploma in Civil Engineering** from The Salem Polytechnic College, Salem, TamilNadu, India. – 2001-2004.(with 74%).
- ❖ **SSLC** from Hindu DanBasco Matriculation Higher Secondary School, Salem, TamilNadu, India.2001.

ACADEMIC EXPERIENCE

- ❖ **7 years and 6 Months** in K.S.Rangasamy College of Technology, Tiruchengodu as Assistant professor.
- ❖ **3 Years** in Karpaga Vinayaga College of Engineering and Technology, Chengalpat as Senior Assistant Professor.
- ❖ **1 years& 1 month** in Salem College of Engineering and Technology, Salem-111. as **Assistant Professor & Head.**
- ❖ **1 Year** in Mahindra Acres Pvt. Ltd. Chennai As Design Engineer.

ACADEMIC SKILL

- ❖ Doing **Master of Science in Real Estate and Valuation** in Directorate of Distance Education in Annamalai University.
- ❖ Finished **Master Diploma in Computer Application and Diploma in CAD.** from Tamilnadu Computer Research Education.

COMPUTER CONGNIZANCE

- ❖ **Applications:** -Auto Cad, STADD PRO, REVIT Architecture.
- ❖ **Programming languages:** - C, C++, Java, Fox Pro, HTML, GWBASIC

TECHNICAL PROFICIENCY:

Areas of Interest:

- ❖ Design of RC Elements.
- ❖ Advanced Concrete Technology.
- ❖ Structural Analysis.
- ❖ Environmental Engineering.
- ❖ Transportation Engineering.

AWARDS AND RECOGNITION

1. Received **Best Scientist Award** from Nature Science Foundation, Coimbatore in the field of Structural Engineering for the Academic Excellence. On Jan 2020.
2. Received “**Best Research Paper Award**” from Novel Research Academy. Puducherry on Jan 2020.
3. **Outstanding Teacher Award** for the year of 2016-17 and 2017-18 in K. S. Rangasamy College of Technology.
4. **Trend setter Award** for the year of 2014-15 in Karpaga Vinayaga College of Engineering & Technology.

MEMBERSHIP IN PROFESSIONAL BODIES

1. **Life Member** in “Indian Society of Systems for Science & Engineering (ISSE).” **LM – 05410 (2017).**
2. **Life Member** in “International Association of Engineers (IAENG).” “**Membership Number :317928 (2022).**
3. **Fellowship** in “The Society of Innovative Educationalist & Scientific Research Professional (SIESRP).” **LMF2206102908 (2022).**
4. **Hon.Editorial Board Member** in Journal of Engineering Technological Research. (ISSN:2229-9262).
5. **Editorial Board Member & Reviewer** in Materials Express - American Scientific Publishers. (ISSN :2158-5849).

NPTEL / SWAYAM COURSES

1. 12 Weeks NPTEL online Certification course on “**Engineering Graphics**” and Awarded **Elite Scorer** Conducted by Indian Institute of Technology, Kanpur from January to March 2016.
2. 12 Weeks NPTEL online Certification course on “**Design of Reinforced Concrete Structures**” and Awarded **Elite Scorer** Conducted by Indian Institute of Technology, Kharagpur from July to October 2019.
3. 8 Weeks NPTEL online Certification course on “**Introduction to Research**” and Awarded **Elite Scorer** Conducted by Indian Institute of Technology, Madras from August to October 2019.
4. 8 Weeks NPTEL online Certification course on “**Introduction to Civil Engineering Profession**” and Awarded **Elite Scorer** Conducted by Indian Institute of Technology, Madras from January to March 2020.
5. 12 Weeks NPTEL online Certification course on “**Maintenance and Repair of Concrete Structures**” and Awarded **Elite Scorer** Conducted by Indian Institute of Technology, Madras from January to April 2020.
6. 12 Weeks NPTEL online Certification course on “**Integrated Waste Management for a Smart City**” and Awarded **Elite Scorer** Conducted by Indian Institute of Technology, Kharagpur from July to October 2022

PUBLICATION IN NATIONAL AND INTERNATIONAL JOURNALS

1. **Vijaya Sundravel K**, Aruldasu M and VijayaSrinivasan K, (2015), “**Experimental Study on Strength Characteristics of Geopolymer Concrete Using Silica Fume**”, International Journal of Engineering Research and Management, Vol.02, Issue-02, pp. 127-132.
2. **Vijaya Sundravel K**, Prabakar M and Elavarasan N, (2015), “**Groundwater quality investigation in Salem Corporation by using Multivariate Statistical Technic uses**”, International Journal of Engineering Research and Management, Vol.02, Issue-12, pp. 01-08.
3. **Vijaya Sundravel K**, Amirthagadeshwaran G and Saravanarajan N, (2015), “**Surveying, Planning and Scheduling for a Hill Road work at Kalrayan Hills by adopting ISS Method**”, International Journal Scientific Research and Development, Vol.03, Issue-10.
4. **Vijaya Sundravel K**, Amirthagadeshwaran G and Saravanarajan N, (2016), “**Experimental study on Geotextiles and Geo Synthetics for Soil Reinforcement**”, International Journal of Civil Engineering and Research, Vol.06, Issue-12, pp. 123-132.
5. Banupriya V and **Vijaya Sundravel K**, (2016) “**Strengthening of Column by Fiber Reinforced Concrete**”, International Journal Scientific Research and Development, Vol.03, Issue-12.
6. Presented a paper titled “**Prediction of compressive & Split tensile strength of high-performance concrete using Artificial Neural Network**”, at National conference on Trendy & Sustainable Development of Civil Engineering, K.S.R College of Engineering on 21st April 2016.

7. Presented a paper titled “**Experimental study on strength characteristics of concrete for replacement of non-reactive material**”, at National Conference on Innovations in Civil Engineering organized by Department of Civil Engineering, Knowledge Institute of Technology on 21st April 2016.
8. Presented a paper titled “**An Experimental investigation on the use of pet aggregate as partial replacement of fine aggregate in concrete**”, at International Conference on engineering and Advancement in Technology organized by Science & Innovative Engineering and Technology. Chennai. India in association with Sri Krishna College of Technology on 22nd and 23rd March 2018.
9. Presented a paper titled “**An Characteristics study on Concrete Cloth**”, at International conference on Advanced Science and Engineering Research organized by Department of Civil Engineering, AL-Ameen Engineering College, Erode on 5th April 2018.
10. Presented a paper titled “**An Experimental Investigation on Plastic Wastes by Partial Replacement of Fine Aggregate on Concrete**”, at International Conference on Advanced Science and Engineering Research organized by Department of Civil Engineering, AL-Ameen Engineering College, Erode on 5th April 2018.
11. Presented a paper titled “**Utilizing of Non-Reactive as Partial Replacement of Cement in Concrete**”, at National conference Organized by Department of Civil Engineering, Dr.M.G.R Educational and Research Institute, Chennai on 17th & 18th April 2018.
12. **Vijaya Sundravel K, Boobalan.S, Kayalvizhi.A, (2018), “An Characteristics study on Concrete Cloth**”, International Journal of Advanced Science and Engineering Research, Vol.03, Issue-01, pp. 27-29.
13. **Vijaya Sundravel K, A.Dharani, P.Easwaran, (2018), “An Experimental Investigation on Plastic Wastes by Partial Replacement of Fine Aggregate on Concrete**”, International Journal of Advanced Science and Engineering Research, Vol.03, Issue-01, pp. 1432-1439.
14. Presented a paper titled “**Study of Municipal Sludge Ash as A Brick Material**”, at International Conference on Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems Using Internet of Things (IOT). organized by Department of Civil Engineering, K S Rangasamy College of Technology, Tiruchengode on 28th & 29th August 2019.
15. Presented a paper titled “**Strengthening of R.C Short Column with Partial Replacement of Bacillus Bacteria in Cement**”, at International Conference on Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems Using Internet of Things (IOT). organized by Department of Civil Engineering, K S Rangasamy College of Technology, Tiruchengode on 28th & 29th August 2019.
16. **Vijaya Sundravel K, S.Ramesh and D.Jegadeshwaran, (2019), “Strengthening of R.C Short Column with Partial Replacement of Bacillus Bacteria in Cement**”,

International Research Journal of Multidisciplinary Technovation, Vol.01, Issue-06, pp. 362-372.

17. **Vijaya Sundravel K, M.Jagadeshwaran (2019), “Study Of Municipal Sludge Ash As A Brick Material”**, International Research Journal of Multidisciplinary Technovation, Vol.01, Issue-06, pp. 415-420.
18. Presented a paper titled **“Experimental Investigation on Self-Healing Concrete Using Psedomonous Bacteria”**, at International Conference on Advanced Nanomaterials for Energy, Engineering, Biological and Medical Applications (ICAN-2019). organized by Chettinad College of Engineering and Technology, Karur on 12th & 13th December 2019.
19. Presented a paper titled **“An Experimental Investigation On The Characteristic Properties And Structural Behaviour Of Fal-G Concrete”**, at International Conference on Advanced Nanomaterials for Energy, Engineering, Biological and Medical Applications (ICAN-2019). organized by Chettinad College of Engineering and Technology, Karur on 06th March 2020.
20. Presented a paper titled **“An Experimental study on Retrofitted Cracked Concrete with Nano modified Epoxy Resin”**, at National Conference on Sustainable Development in Structural Engineering (NCS DSE’2K20)). organized by Er.Perumal Manimekalai College of Engineering, Hosur on 12th & 13th December 2019.
21. Presented a paper titled **“Comparative Study on Self – Healing Concrete using Bacillus Bacteria by Encapsulation Method”**, at International Conference on Research Advancements & Challenges in Engineering Science (ICRACE). organized by Velammal Institute of Technology, Chennai on 06th & 07th March 2020.
22. Presented a paper titled **“Strength and Durability Study on Geopolymer Concrete by Using Flyash and GGBS with Embedded of Bacteria”**, at International Conference on NexGen Technologies. organized by Sengunthar Engineering College, Tiruchengode on 20th & 21st March 2020.
23. **Vijaya Sundravel K, Divya Bharathi. S and Sakthivel S (2020), “Strength and Durability Study on Geopolymer Concrete by Using Flyash and GGBS with Embedded of Bacteria”**, Journal of Information and Computational Science, Vol.13, Issue-03, pp. 01-10.
24. Presented a paper titled **“Strength and Durability Study on Geopolymer Concrete by Using Flyash and GGBS”**, at International Conference on Advanced Science and Engineering Research (ASER) Organised by Department of Civil Engineering, AL-Ameen Engineering College, Erode on 28th March 2020.
25. **Vijaya Sundravel K, Barath K, Jayasurya V (2020), “Experimental Study on Geo Textiles and Geo Membrane for Deteriorated Concrete in Offshore Structures”**, International Journal of Engineering Research and Management, Vol.07, Issue-04, pp. 41-45.

26. **Vijaya Sundravel K, Barath K (2020), “Strength and Durability Study on Geopolymer Concrete by Using Flyash And GGBS”**, International Journal of Advanced Science and Engineering Research, Vol.05, Issue-01,2020, pp. 594-601.
27. **Vijaya Sundravel K, Pavatharine C, Ruthrakumar V, Sowbharaniga S (2021), “Experimental Investigation on Geopolymer Concrete Using Bacteria”**, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, Issue-04/April-2021, pp. 1641-1647.
28. **Vijaya Sundravel K, Nirmal Ragav (2021), “Study of Construction Of G+1 Residential Building”**, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, Issue-05/May-2021, pp. 605-611.
29. **Vijaya Sundravel K, Ramesh S, Jegadeeswaran D (2021), “Design and formulation of microbially induced self-healing concrete for building structure strength enhancement”**, Materials Express, Vol. 11, Issue -11/November-2021, pp. 1753 -1765.
30. Presented a paper titled **“Experimental Investigation on Self – Healing Concrete using Bacteria”**, at International conference on Recent Innovations in Robotics, Construction and Mechanical Science (ICRIRCMS) organized by Organised by MASHA University, Malaysia & K.S.Rangasamy College of Technology, India on 10th to 11th June 2022.
31. Presented a paper titled **“Experimental Study on Strength Characteristics of Bacterial Concrete using Silica Fume”**, at International conference on Recent Innovations in Robotics, Construction and Mechanical Science (ICRIRCMS) organized by Organised by MASHA University, Malaysia & K.S.Rangasamy College of Technology, India on 10th to 11th June 2022.
32. Presented a paper titled **“Role of B.Licheniformis in Biomineralization of Calcium Carbonate and its Biological Applications”**, at International conference on Recent Innovations in Robotics, Construction and Mechanical Science (ICRIRCMS) organized by Organised by MASHA University, Malaysia & K.S.Rangasamy College of Technology, India on 10th to 11th June 2022.

FDP / WORKSHOPS / SYMPOSIUM / SEMINARS / CONFERENCES CONDUCTED:

1. One day National Seminar on Nano materials and Smart materials as Co-Ordinator in Karpaga Vinayaga College of Technology, Chengalpattu.
2. One day National Level Technical symposium as Co-Patron in Salem College of Technology, Salem.
3. Two days International Conference on Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems Using Internet of Things (IOT) as Organizing Secretary in K S Rangasamy College of Technology, Tiruchengode. Sponsored by All India Council for Technical Education.

4. One Week AICTE Sponsored Short Term Training Program on Applied Materials and Mechanics as Co-Ordinator in K.S.Rangasamy College of Technology, Tiruchengode.

FDP/STTP/ TRAINING PROGRAMMES ATTENDED

1. One Week **ATAL FDP** on “**Smart Cities**” Conducted by Kumaraguru College of Technology, Coimbatore on 19th October to 23rd October 2020.
2. One Week **ATAL FDP** on “**Advance in Concrete Technology and Sustainable Construction Practices**” Conducted by Government Engineering College, Dahod, Gujarat on 21st September to 25th September 2020.
3. One Week Certificate Course on “**Digital Teaching Techniques**” Conducted by ICT Academy on 10th July to 15th July 2020.
4. Five Days Faculty Development Programme on “**Sustainability Aspects and Recent Trends in Civil Engineering-The Future Scenario**” Conducted by BMS Institute of Technology and Management, Bengaluru on 14th June to 18th June 2020.
5. ISTE STTP on “**State of The Art Practices in Transportation Engineering**” conducted by Jyothi Engineering College, Thrissur from 10^h June 2020 to 12th June 2020.
6. Two days National Workshop on “**Revit Architecture**” Organised by Department of Civil Engineering, Easwari Engineering College, Chennai on 09th & 10th June 2020.
7. Five Days Faculty Development Programme on “**Emerging Trends in Infrastructure & Structural Engineering (ETISE-2020)**” Conducted by Marri Laxman Reddy Institute of Technology & Management, Hyderabad on 02nd June to 06th June 2020.
8. One week Faculty Development Programme on “**Innovation to Academicians**” Conducted by Ramachandra College of Engineering, Eluru on 11th May to 16th May 2020.
9. Seven Days Faculty Development Programme on “**Effective and Instructive Research**” Conducted by Sona College of Technology, Salem on 04th May to 10th May 2020.
10. 2 days Faculty Development Program on “**Using ICT Tools in Teaching**” Conducted by ICT Academy on 24.02.2020 to 25.02.2020.
11. 12 weeks Faculty Development program on “**Design of Reinforced Concrete Structures**” conducted by Indian Institute of Technology, Kharagpur from July to October 2019 Sponsored by All India Council for Technical Education and NPTEL.
12. 8 weeks Faculty Development program on “**Introduction to Research**” conducted by Indian Institute of Technology, Madras from August to October 2019 Sponsored by All India Council for Technical Education and NPTEL.

13. One week Quality Improvement Program Short Term Course on “**Marine Infrastructures Development: Efficient Design of Ports, Terminals, Waterway & Coastal Structures**” Conducted by Indian Institute of Technology, Bombay from 01st July to 05th July 2019 Sponsored by All India Council for Technical Education.
14. One day National Workshop on “**Smart Water Management**” Organised by Department of Civil Engineering, K. S. Rangasamy College of Technology, on 13th March 2019.
15. One day National Seminar on “**Integrated Building Solutions**” Organised by Department of Civil Engineering, K. S. Rangasamy College of Technology, on 01st March 2019.
16. Three Days Faculty Development Programme on “**Teaching Learning Centre**” Conducted by Indian Institute of Technology, Madras on 27th November to 29th November 2018.
17. Two days National Workshop on “**Safety, Health & Environment in Construction**” Conducted by Builders Engineering College, Kangayam in association with Builders Association of India and NICMAR on 19th & 20th July 2018.
18. Five Days Faculty Development Programme on “**AUTODESK INVENTOR**” Conducted by ICT Academy from 5th March to 09th March 2018 at K.S.R College of Engineering, Namakkal.
19. Two days National Seminar on “**Current Trends, Prospects and Challenges of SWACHH BHARAT**” Organized by Department of Civil Engineering, K. S. Rangasamy College of Technology, on 14th & 15th September 2017. Sponsored by All India Council for Technical Education.
20. One week Faculty Development programme in “**Finite Element Analysis & its Application in Civil Engineering**” Conducted by Indian Institute of Technology, Bombay from 26th June to 30th June 2017 Sponsored by Department of Science and Technology, Ministry of Science and Technology, Government of India.
21. One day National Seminar on “**Sustainable Solid Waste Management Technologies for Clean India**” Organized by The Department of Civil Engineering, K. S. Rangasamy College of Technology, on 23rd June 2017. Sponsored by Council of Scientific & Industrial Research, Ministry of Science and Technology, Government of India.
22. One day National Workshop on “**NPTEL**” Conducted by Indian Institute of Technology, Madras on 11th January 2017.
23. Two days Faculty Development Programme on “**Repairs & Rehabilitation of Structures**” Organized by Department of Civil Engineering, Tagore Engineering College, Chennai during 19th to 20th December 2016.

24. TEQIP-II Sponsored One week Faculty Development Programme on” **Repairs, Retrofitting & Rehabilitation of R.C.C Structures**” Organizes by Department of Civil Engineering, Government College of Technology, Salem during 3rd to 8th October 2016.
25. One day National Workshop on “**Soil Exploration and Foundation Design**” at K S Rangasamy college of Technology, Tirchengodu on 13th April 2016.
26. Three days Short-term courses on “Subsurface **Investigation for Pavements and Buildings**” Organized by The Department of Civil Engineering, National Institute of Technology, Tiruchirappalli during 10th - 12th march 2016.
27. ISTE STTP on **Introduction to Structural Engineering** conducted by Indian Institute of Technology, Kharagpur from 30th November 2015 to 9th January 2016.
28. Five days Short-Term Training Programme on” **Highway Design and Safety**” Organizes by Centre for Transportation Research, Department of Civil Engineering, National Institute of Technology, Calicut during 30th Novemer to 4th December 2015.
29. DRDO Sponsored one day National Seminar on “**Characterization of Multifunctional Materials for Engineering application**” conducted by The Department of Civil Engineering, Mahindra Engineering College, Namakkal on 18th September 2015.
30. One day National Workshop on “**Smart Renewable Energy Technologies; Opportunities and Challenges**” at K S Rangasamy college of Technology, Tirchengode on 28th August 2015.
31. One day Workshop on **Advanced Surveying and GPS**, at Karapaga Vinayaga College of Engineering and Technology, Kancheepuram. On 18th March 2015.
32. Eight Days Faculty Development Training Program on **Structural Analysis-II** at Adhiparasakthi Engineering College from 08th to 15th December 2014 Sponsored by Centre for Faculty Development, Anna University, Chennai.
33. Seven Days Faculty Development Training Program on **Surveying-I** at Karapaga Vinayaga College of Engineering and Technology from 23th to 29th June 2014 Sponsored by Centre for Faculty Development, Anna University, Chennai.
34. One day National Seminar on “**Contemporary Development in Civil Engineering**” conducted by The Department of Civil Engineering, Easa College of Engineering and Technology, Coimbatore on 11th October 2012.
35. Two-week Faculty Development Programme in “**Entrepreneurship Development**” Conducted by ITCOT at Salem from 28th November to 9th December 2011 Sponsored by Department of Science and Technolgy, Ministry of Science and Technology, Government of India.
36. Two Days National Seminar on “**Advances in Construction Engineering Practice**” at Annamalai University, From 25th February to 26th February 2010.

37. International structural Engineering Convention 2010 held at Annamalai University on Dec 07 to Dec10, 2010.

38. National Conference on “Sustainable development of environment for future generation” held at Kumaraguru College of Technology on 14th& 15th july, 2005

ACADEMIC ACHEIVEMENT

- ❖ Achieved University first in Ph.D. Course work and obtained **9.25 CGPA**.
- ❖ Been **Anna University Representative** for Successful completion of Anna University Examination for Several times.
- ❖ More than 50 online E-Assessment Webinars attended in the field of Civil Engineering.
- ❖ Guided several UG Project and 5 PG Project.
- ❖ Been as an **Exam cell Coordinator** for past 3 years.
- ❖ Member of the **Board of Studies** for Department of Civil Engineering at K.S.Rangasamy College of Technology.
- ❖ **Question paper setter** for the various Autonomous College and Deemed University across Tamil Nadu.
- ❖ **Question paper scrutinizer** for End semester examinations at K. S. Rangasamy college of technology.
- ❖ Worked for NAAC Accreditation and NBA.

EXTRA CURRICULAR ACTIVITIES:

- ❖ Got ‘N’ Number of Prizes in Sports and Athletics.
- ❖ Got 6 Band in International English Language Testing System (IELTS) Conducted by **BRITISH COUNCIL, IELTS AUSTRALIA, UNIVERSITY of CAMBRIDGE**.
- ❖ Got 97 Marks in PRATHAMIC, MADHYAMA AND RASHTRABHASHA Examination Conducted by **Dakshina Bharat Hindi Prachar Sabha, Madras**.
- ❖ Active member in **Donors Club**. And Donated blood for **more than 18 times**.

PERSONAL DETAILS

Date of Birth : 24thJuly,1986
Sex : Male
Marital Status : Married
Father’s Name : Mr.M.Krishnavel
Mother’s Name : Mrs.K.Vimalarani

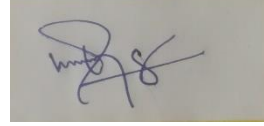
Mother Tongue : Tamil
Nationality : Indian
Language known : English, Tamil, Hindi, Sanskrit.

DECLARATIONS

I do hereby declare that all the information furnished above true to the best of my knowledge.

Place : Tharamangalam

Date :



[Dr.K.Vijaya Sundravel]