

## BIO-DATA

### I Personal Informations :

Name : **Dr.M.S.RAVIKUMAR**  
 Date of Birth : 07.06.1975  
 Age : 47 Years  
 Gender : Male  
 Religion /Caste : Hindu / Nadar  
 Address for Communication : 8/82, 'M S R' Illam  
 South Therivilai, Puthalam (P.O),  
 Kanyakumari District -629602, Tamil Nadu



e-mail : drmsr1975@gmail.com  
 Mobile : 09442077274

### II Academic Qualifications:

Degree	Field of Specialization	Institute/ University	Year of Passing
Ph.D	Civil Engineering	Sathyabama University, Chennai	Feb.2011
M.E	Structural Engineering	Annamalai University, Chidambaram	Nov.1999
B.E	Civil Engineering	The Indian Engineering College, Vadakankulam	Nov.1997

### III Professional Experience:

Institution	Designation	Period	Duration	
			Years	Months
PSN Engineering College Tirunelveli	Principal	15.02.2021– Till Date	03	03
N.I University, Kumarakovil.Thuckalay	Professor	05.02.2020 – 12.02.2021	01	00
PSN Engineering College Tirunelveli	Principal	29.06.2015 – 03.02.2020	04	08
N.I University, Kumarakovil.Thuckalay	Professor & Head / civil	01.07.2013 – 25.06.2015	02	00
Sun College of Engineering & Technology, Erachakulam	Professor & Vice Principal	02.05.2011 – 28.06.2013	02	02
Sun Polytechnic College, Erachakulam	Principal	20.09.2006 – 30.04.2011	04	07
Sun College of Engineering & Technology, Erachakulam	Assistant Professor	03.09.2004 – 18.09.2006	02	02
The Rajaas Engineering College, Vadakkangulam	Lecturer	20.7.2000 – 24.08.2004	04	01
<b>Total</b>			<b>23</b>	<b>11</b>

## **IV Publications:**

### **Papers Published in Journals/Conferences**

#### **Citation Details**

Citations	479
h-index	12
i10-index	16

1. ‘Experimental Investigation on High Performance Self Curing Kiln Ash Concrete” International Engineering and Technology Journal on Civil and Structures, ISSN 0973-8061, pp.054-058.
2. ‘Effect of Mineral and Chemical Admixtures on the properties of Self Compacting Concrete’, International Journal of Engineering Research and Technology, ISSN 0974-3154, pp 15-24.
3. ‘Self Compacted/Self Curing/Kiln Ash Concrete’, International Journal of Design and Manufacturing Technologies, ISSN 0973-9106, Volume 5, Number 1, pp-70-75
4. ‘Development of high strength self-compacted Self curing concrete with mineral admixtures’ International Journal on Design and Manufacturing Technologies-[www.ijodam.com](http://www.ijodam.com), ISSN 0973-9106, pp. 103-108.
5. ‘Test on Flexural Behaviour of High Performance Concrete using Glass Fibres’ International Engineering and Technology Journal on Civil and Structures, ISSN 0973-8061, pp.059-064.

6. 'Experimental Investigation on Flexural Behaviour of High Performance Concrete using Glass Fibres', International Journal of Design and Manufacturing Technologies, ISSN 0973-9106, Volume 4, Number 2, pp-62-67
7. 'Behaviour of Self Compacted Self Curing Kiln Ash Concrete with various Admixtures', Journal of Engineering and Applied Sciences, www.arpnjournals.com, ISSN 1819-6608, pp 25-30.
8. 'Study the Behaviour of Beam-Column Joints in Self Compacted Self Curing Concrete', Journal of Applied Engineering Research, ISSN 0973-4562 pp 27-32.
9. 'Investigations on self-compacted self-curing concrete using limestone powder and clinkers', Journal of Engineering and Applied Sciences, www.arpnjournals.com, ISSN 1819-6608, Vol.5, No.3, pp 32-37.
10. 'Investigations on self-compacted self-curing concrete using limestone powder and clinkers', National journal on Advances in Building sciences and mechanics www.njabsm.com, ISSN 0975-7317, Vol.1, No.1, pp 28-33.
11. 'Investigations and study on the effect of AR Glass polymer fibres in Self Compacting Self Curing Concrete', Journal of Engineering and Applied Sciences, ISSN 1819-6608, pp 41-45.
12. 'Experimental study on the influence of polymer fibres in Self Compacting Self Curing Concrete', Journal of Applied Engineering Research, ISSN 0973-4562, pp 21-26.

13. 'Flexural behavior of beams incorporating GGBS as partial replacement of fine aggregate in concrete ' Journal of Advanced Materials Research Vols.984-985 , pp 698-706.
14. 'Evaluation of the fresh and hardened properties of steel fiber reinforced self compacting concrete using recycled aggregates as a replacement material' Journal of Advances In Civil Engineering Vol.2014 ,Article ID 671547,6 pages.
15. 'Optimization of the mixture proportion of self compacting concrete using recycled aggregates and steel fibers' International Journal of Earth Sciences And Engineering ISSN 0974-5904,Vol 07, No 2 April 2014,P.P 780-784
16. 'Application of recycled aggregates and steel fibres in exterior beam column joints' International Journal of Earth Sciences And Engineering ISSN 0974-5904,Vol 07, No 5 october 2014,P.P 993-996
17. 'Study of the structural behavior of beam column joints by partial replacement of coarse aggregate with waste recycled aggregates and by addition of hybrid steel fibres' International Journal of Earth Sciences And Engineering ISSN 0974-5904,Vol 07, No 7 October 2014, P.P 997-1001
18. 'Behavior of recycled aggregate in exterior beam column joints' International Journal of Earth Sciences And Engineering ISSN 0974-5904,Vol 07, No 5 October 2014,P.P 1002-1005

19. 'Smart and intelligent buildings', Proceedings of International Conference ECHDEM 2007, Sathyabama university, Chennai, Nov-2007.
20. 'Advances in Concrete and Construction', proceedings of International Conference ICACC 2008, Vasavi College of Engineering, Hyderabad, Feb-2008.
21. 'Seismic and Tsunami Resistant Structures', "Proceedings of International Conference, ECHDEM 2007, Sathyabama University, Chennai, Nov-2007.
22. 'Study the Behaviour of Beam-Column Joints in Self Compacted Self Curing Concrete', Proceedings of National Conference TRACE 2010, B.S.Abdur Rahman University, Chennai, Apr-2010.
23. 'Study the Load Deflection Behaviour of Beam Column Joints using Self Compacted Concrete', Proceedings of National Conference ITCE 2010 ,Alagappa Chattier College of Engineering and Technology, Karaikudi, Apr-2010.
24. 'Recent developments in earthquake resistant design of structures', 'Proceedings of National Conference, Sathyabama university, Jan-2007.
25. 'Investigations on self compacted concrete with mineral and chemical admixtures', Proceedings of National Conference, St. Xavier Catholic College of Engineering, Nagercoil, Mar-2007.

26. Study of the influence of steel fibers on the behavior of Hollow beams, (IJCET) vol 10, issue 02. PP 454-463 International Journal of Civil Engineering & Technology.
27. Finite element analysis of Hollow beams strengthened with FRP warping, International Journal of Engineering & Advanced Technology ISSN 2249 – 8958 Vol : 8, Issue 6, PP No. 690 – 694
28. Hollow beams strengthened with steel fibers and FRP warping, International Journal of Recent Technology and Engineering Issue 2277 – 3878, Vol – 1, Issue PP No 1129-1133
29. “Strength Evaluation of Laterite Soil Using Polymer Fibers”, International Journal of Engineering and Technology (ISSN Print: 0976–6308), Volume 9, Issue 2, February 2018. [Scopus]
- 30 “Evaluation of Laterite Soil Stabilized Using Polymer Sack Fibers”, International Journal of Innovative Technology and Exploring Engineering (ISSN: Print 2278-3075, Volume 8, Issue 6, April-2019, [Scopus]
- 31 “Effect of Fibres on the Compressive Strength of Hollow Concrete Blocks”, International Journal of Civil Engineering and Technology, Vol. 9, No. 2, (2018), pp. 481-490. [Scopus]
- 32 “Effect of Supplementary Cementitious Materials on the Strength of Concrete and Hollow Concrete Blocks”, International Journal of Civil Engineering and Technology, Vol. 9, No. 10, (2018), pp. 1863-1871. [Scopus]
- 33 “Mechanical Properties of Concrete and Hollow Concrete Blocks Containing Steel and Nylon Fibres”, International Journal of Engineering and Advanced Technology, Vol. 8, No. 6, (2019), pp. 3162-3168. [Elsevier-Scopus]

34. Review on the mechanism and mitigation of cracks in concrete ‘ELSEVIER,APPLICATIONS IN ENGINEERING SCIENCE’ online 5 oct 2023 content list available at science direct.

34 “Effect of Polypropylene Fibres on the Strength of Concrete and Hollow Concrete Blocks”, International Conference on Innovative Trends in Science & Technology organized by Sarabhai Institute of Science & Technology and Techown, Trivandrum, 27<sup>th</sup> November 2018.

35 “Effect of Glass Fibres on the Strength of Concrete used for making Hollow Concrete Blocks”, 1<sup>st</sup> International Conference on Recent Scientific Research in Engineering and Technology organized by Johncox Memorial CSI Institute of Technology and Techown, Trivandrum, 22<sup>nd</sup> March 2019.

## V Professional Contributions :

Position	Particulars
<b>Chairman</b>	Board of Studies, Civil Engineering , N.I University.
<b>HighPowerCommitteeMember</b>	Anti Ragging& Surveillance Cell , N. I University.
<b>Executive Member</b>	Academic Council , N.I University.
<b>Chief Examiner</b>	Central Valuation , Civil Engineering , N.I University.
<b>Question Paper Author</b>	Annamalai University, Chidambaram N.I University, Kumaracoil K. S. R College of Technology , Tiruchengode Sethu Institute of Technology, Virudhunagar
<b>Chairman</b>	Interview Panel, Doctoral Programme, Civil Engineering , N.I University
<b>Member</b>	Grievance and Disciplinary Committee ,N.I University
<b>External Examiner</b>	Annamalai University, Ph.D Programmes , Civil Engineering
<b>Member</b>	Hostel Monitoring Committee, N.I University
<b>Journal Reviewer</b>	Structural Engineering and Mechanics, An International Journal

<b>Journal Editor</b>	International Journal of Earth Sciences And Engineering ISSN 0974-5904
<b>Member</b>	Award selection committee 2014, ISTE, New Delhi
<b>Convener</b>	National Level Workshop on Innovative Technologies And Challenges In Civil Engineering on 1 <sup>st</sup> , Oct, 2013
<b>Organizing Secretary</b>	International Conference on Ingenious Technologies and Sustainable Developments In Civil Engineering on 8 <sup>th</sup> , Oct, 2014

## **VI Membership in Scientific Societies and Professional Bodies:**

<b>Sl.No</b>	<b>Society</b>	<b>Membership/Certificate No</b>
1	Life Member in Indian Society for Technical Education, New Delhi	<b>LM 31619</b>
2	Member in Association of Institution of Engineers	<b>A 523682 - 8</b>
3	Indian concrete Institute	<b>LM 5294</b>

## **VII Guideship:**

Recognized Supervisor in **N.I** University , Kumaracoil .

## **VIII Ph.D Guided / Guiding :**

<b>Sl. No.</b>	<b>Name</b>	<b>Topic</b>	<b>Status</b>	<b>Category</b>
01	Vaisakh.G	Durability studies on high performance self curing concrete using M sand and bamboo fibers	completed	PT - E
02	Sivabala .P	Mechanical properties of high performance self compacting concrete using sisal fiber and quarry dust	completed	PT - E
03	Shalini . J	Impact of silica fume on the durability properties of light weight green concrete incorporating plastic aggregates and banana fibers	completed	PT - I



04	Roselin . R	Influence of nano silica on the rheological and mechanical properties of smart nano concrete using pineapple fiber	completed	PT - I
05	Asvitha Valli S	Study on Crack Sealing Using Natural Biopolymers	Doing	PT – E
06	Fehlberg J.	Experimental Investigation on Green Concrete Using Bovine Faeces Ash and Non – Degradable Plastics	Doing	PT – E
07	Kannan K Vijayan 3	Earthquake Vibration Control Using Modified Frame – Shear Wall	Doing	PT – E
08	Kavitha S 1	Environmental Planning, Management And Implementation	Doing	PT – E
09	PramodSan kar	Strength and Durability Properties Brick Made of Using Quarry Dust – Fly Ash, Lime and Gypsum (FALGQ) Subjected to Elevated Temperature	Doing	PT – E
10	Priya C V	Recycling of Hardened Concrete to be Used as Course Aggregate and Fine Aggregate	Doing	PT – E
11	Rahul R	Properties of Nano Materials in Concrete	Doing	PT – E

No. of students completed Ph.D : 04

No of students doing Ph.D : 07

## IX Projects Guided / Guiding

- Guided 26 Postgraduates projects (M.E)
- Guided 34 Undergraduates projects (B.E)

## X Personal Achievements

- Professional involvement oriented towards Teaching and Research.
- In teaching more concern has been shown towards the individual students development

- Participated in various technical forums and delivered invited talks.
- Organized national and international conferences, seminars and symposiums.
- Organized several faculty development programmes and Staff development programmes.
- Established Structural Engineering Laboratory, Soil Mechanics Laboratory, Hydraulics Laboratory at Sun College of Engineering .
- Promoting students interests in presenting technical papers in national and international Conferences and Publications in journal.
- Helping students in preparation of GATE and other P.G level entrance examinations.
- Involved in promotion of research activities and publications in journals and conferences.
- Organizing expert lectures on advanced topics for students and faculty, by inviting experts from leading/ premier institute.

## **XI Subjects Taught:**

<b>Sl.No</b>	<b>B.E / M.E Civil Engineering</b>
1	Design of Concrete & Steel Structures
2	Design of Pre-stressed Concrete Structures
3	Surveying I & II
4	Mechanics of Solids
5	Strength of Materials
6	Structural Analysis I & II
7	Engineering Mechanics
8	Basics of Dynamics & seismic Design
9	Repair & Rehabilitation of Structures
10	Construction materials & Construction Technology
11	Pre stressed concrete structures
12	Smart materials and smart structures

13	Pre fabricated structures
14	Advanced concrete structures
15	Unit operations in environmental engineering

## **X II Area of Interest:**

- Self Compacting Concrete
- Fiber Reinforced Concrete Composites
- High Strength and High Performance Concrete
- Design of Earthquake Resistant Structures
- Cost-Effective Construction Techniques
- Optimum Design of Structures

## **XIII Text Book Published**

1. **Engineering Graphics *Regulations 2017* common for first year all branches**  
**“CHARULATHA PUBLICATIONS” ISBN 976-93-89051-66-7, August 2019**
2. **Waste water Engineering” SCIENTIFIC ENGINEERING HOUSE,**  
**ISBN 78-93-5625-183-0,2022**

## **XIV PATENT RECEIVED**

**Application No :202241021259**

**Applicant Name :Dr.M.S.Ravikumar**

**Publication Date :22 /04 /2022**

**Title of Invention : Crack detection and testing of buildings strength through  
image processing to predict the condition of buildings**

## **XV AWARDS RECEIVED**

**Best Principal Award** For Enriching The Quality Of Technical Education. Issued By IIT- MADRAS, Chennai On 21 September 2017.

**ACADEMIC EXCELLENCE AWARD** Honoured On The Occasion Of International Womens Day By Maruthani Monthly Magazine On 06 March 2022.

**BEST LEADERSHIP AWARD** For Great Service In The Field Of Education By Kamalalayam Trust 22 January 2022.

## **XV ACHIEVEMENTS :**

**I was a principal in Sun Polytechnic College, the first year Department have secured 100% result in October 2009 Board Examination and stands first in state.**

**Place :Nagercoil**

**Dr.M.S.RAVIKUMAR**

**Date :16.05.2024**