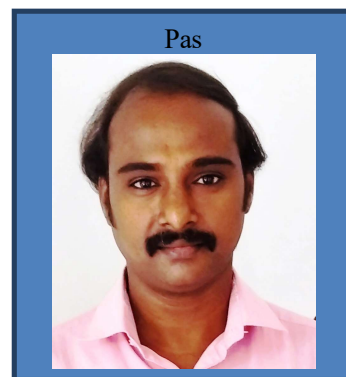


## Faculty Profile



**Name** : Dr.R.Prakash

**Designation** : Associate Professor

**Qualification** :M.E., Ph.D.

**Gender** : Male

**Email** : prakash@gcetly.ac.in

**Phone** : 9942113152

### Education

S.No.	Degree	Institution / University	Year	Branch of study / Specialization
1	Ph.D.	Anna University, Chennai	2020	Civil Engineering (Structural Engineering)
2	M.E.	Alagappa Chettiar Govt. College of Engineering and Technology / Anna University	2011	Structural Engineering
3	B.E.	Alagappa Chettiar Govt. College of Engineering and Technology / Madurai Kamaraj University	2003	Civil Engineering

### Experience

S.No.	Name of the College / Industry	Position Held	From	To	Total years
1	Government College of Engineering, Tirunelveli-627 007	Associate Professor	21.04.2023	Till date	
2	Alagappa Chettiar Govt. College of Engineering and Technology, Karaikudi-630 003.	Assistant Professor	01.10.2016	19.04.23	7
3	ThanthaiPeriyar Govt. Institute of Technology, Vellore-632 002	Assistant Professor	21.10.2011	30.09.2016	5
4	Alagappa Chettiar Govt. College of Engineering and Technology, Karaikudi-630 003.	Assistant Professor	01.10.2006	21.10.2011	5
5	Tarapore & Co., New Delhi	Assistant Engineer	01.11.2003	31.01.2006	2
			<b>Total Experience</b>		<b>19</b>

## Area of Interest:

**Concrete Material Technology; Construction Materials; Alternate cementitious material: Alternate aggregates in concrete; Sustainability of Construction materials.**

## List of publications:

### International Journals:

1. Properties of biocomposites from waste eggshell as fillers. Sivakumar A Srividhya S **Prakash R** Padma S. GlobalNest journal **2023**.DOI:<https://doi.org/10.30955/gnj.005095>
2. Sujatha, V.; Lavanya, G.; **Prakash, R.** Quantifying Liveability Using Survey Analysis and Machine Learning Model. Sustainability 2023, 15, 1633.<https://doi.org/10.3390/su15021633>
3. Control of vibrations in high-rise structures using base isolation technology. N Divyah, **R Prakash**, S Srividhya, KA Prakash. Materials Today: Proceedings 2023
4. Divyah, N.; **Prakash, R.**; Srividhya, S.; Avudaiappan, S.; Guindos, P.; Carsalade, N.M.; Arunachalam, K.P.; NoroozinejadFarsangi, E.; Roco-Videla, Á. Experimental and Numerical Investigations of Laced Built-Up Lightweight Concrete Encased Columns Subjected to Cyclic Axial Load. Buildings 2023, 13, 1444.<https://doi.org/10.3390/buildings13061444>
5. Tharmar E, Abraham M, **Prakash R**, Sundaram A, Flores ES, Canales C, Alam MA. Hydrogeochemistry and Water Quality Assessment in the Thamirabarani River Stretch by Applying GIS and PCA Techniques.Sustainability. 2022; 14(24):16368. <https://doi.org/10.3390/su142416368>
- 6.**Prakash, R.**; Divyah, N.; Srividhya, S.; Avudaiappan, S.; Amran, M.; Naidu Raman, S.; Guindos, P.; Vatin, N.I.; Fediuk, R. Effect of Steel Fiber on the Strength and Flexural Characteristics of Coconut Shell Concrete Partially Blended with Fly Ash. Materials 2022, 15, 4272.<https://doi.org/10.3390/ma15124272>
- 7.Padma, S.; Vidhya Lakshmi, S.; **Prakash, R.**; Srividhya, S.; Sivakumar, A.A.; Divyah, N.; Canales, C.; Saavedra Flores, E.I. Simulation of Land Use/Land Cover Dynamics Using Google Earth Data and QGIS: A Case Study on Outer Ring Road, Southern India. Sustainability 2022, 14, 16373.<https://doi.org/10.3390/su142416373>
8. Performance evaluation and statistical analysis of saw dust as concrete. C Vijayaprabha, **R Prakash**, P Karmugilan Journal of Materials and Engineering Structures «JMES»**2020**: 9 (2), 197-206
9. Parametric study on lightweight concrete-encased short columns under axial compression-Comparison of design codes. N Divyah, **R Prakash**, S Srividhya, ASivakumar - Structural Engineering and Mechanics, An Int'l Journal, 2022
10. Fresh and mechanical characteristics of roselle fibre reinforced self-compacting concrete incorporating fly ash and metakaolin.  
**R.Prakash**, SudharshanN.Raman, N.Divyah, C.Subramanian, C.Vijayaprabha, S.Praveenkumar *Construction and Building Materials. Volume 290, 5 July 2021, 123209*
- 11.Fibre reinforced concrete containing waste coconut shell aggregate, fly ash and polypropylene fibre  
**R Prakash**, R Thenmozhi, SN Raman, C Subramanian *RevistaFacultad de Ingeniería Universidad De Antioquia, 33-42, 2020.*
12. Characterization of eco-friendly steel fiber-reinforced concrete containing waste coconut shell as coarse aggregates and fly ash as partial cement replacement  
**R Prakash**, R Thenmozhi, SN Raman, C Subramanian *Structural Concrete 21 (1), 437-447, 2020.*
13. An investigation of key mechanical and durability properties of coconut shell concrete with partial replacement of fly ash

**R Prakash**, R Thenmozhi, SN Raman, C Subramanian, N Divyah  
*Structural Concrete*, 2020

14. Mechanical characterisation of sustainable fibre-reinforced lightweight concrete incorporating waste coconut shell as coarse aggregate and sisal fibre

**R Prakash**, R Thenmozhi, SN Raman, C Subramanian, N Divyah  
*International Journal of Environmental Science and Technology*, 1-12, 2020

15. Life-Cycle Sustainability Assessment in the Design of Concrete Structures in the Tropics: A Fundamental Analysis

F Jahandideh, SN Raman, M Jamil, **R Prakash**  
*Journal of Design and Built Environment* 20(3), 43-51, 2020

16. Characterization and behavior of basalt fiber reinforced lightweight concrete

N Divyah, R Thenmozhi, M Neelamegam, **R Prakash**  
*Structural Concrete* 2020

17. Mechanical characterisation and flexural performance of eco-friendly concrete produced with fly ash as cement replacement and coconut shell coarse aggregate

**R Prakash**, R Thenmozhi, SN Raman  
*International Journal of Environment and Sustainable Development* 18 (2), 131-148, 2019.

18. Experimental and analytical study on properties of self-curing concrete

S Sowdambikai, C Vijayaprabha, **R Prakash**, MC Ravathi  
*AIP Conference Proceedings* 2021: 2327 (1), 020029 2021

19. Mechanical Properties of Concrete with Partial Replacement of Bagasse Ash

**R Prakash**  
*International Journal of Advance Engineering and Research Development* 4 (7), 14-20, 2017

20. Study on the Corrosion Rate of Rebars Embedded In Concrete Mixes of Various Grades

**R Prakash**, R Regupathi  
*International Journal for Research in Applied Science & Engineering Technology* 5 (10), 1819-1827, 2017

21. Study on properties of coconut Shell aggregate and compressive strength of coconut shell concrete

**R Prakash**  
*Int J Eng Technol Sci Res* 4 (7), 592-602, 2017

22. HIGH PERFORMANCE CONCRETE WITH PARTIAL REPLACEMENT OF QUARRY DUST AND SILICA FUME

**R Prakash**  
*International Journal of Development Research* 7 (7), 13767-70, 2017

23. Study on the Mechanical Properties of Ultra High Strength Concrete with Water Soluble Polymer on Partial Replacement of Quarry Dust as Fine Aggregate

**R Prakash**, R Regupathi  
*International Journal for Research in Applied Science & Engineering Technology* 5(6), 2215-25, 2017

24. MECHANICAL CHARACTERISATION OF HIGH STRENGTH CONCRETE WITH PARTIAL REPLACEMENT OF QUARRY SAND

**R Prakash**  
*International Journal of Recent Scientific Research* 8 (6), 17733-36, 2017

25. Mechanical Properties and Flexural Performance of Geopolymer Concrete

**R Prakash**  
*Int. Res. J. Eng. Technol. (IRJET)* 4 (6), 5720-24, 2017

26. COMPARATIVE STUDY ON THE CORROSION RATE OF REBARS EMBEDDED IN FIBRE REINFORCED CONCRETE AND FIBRE REINFORCED POLYMER CONCRETE

**R Prakash**

*Int. Res. J. Eng. Technol.(IRJET) 3 (5), 3366-72, 2016*

27. Cost Evaluation in Seismic Analysis and Aseismic Design of RC Framed Structure

R Regupathi, **R Prakash**

*International Journal for Research in Applied Science & Engineering Technology, 5(11), 2381-2404, 2017*

28. Experimental Studies on Concrete Made With Ceramic Waste, Copper Slag and Lathe Waste

**R Prakash**

*International Journal for Research in Applied Science & Engineering Technology, 5(9), 503-508, 2017*

**International Conferences:**

1. R.Prakash,N.Divyah,R.U.DeepakandC.VijayaPrabha2020, 'Behaviour of Self Compacting Concrete using Marble Powder as Partial Replacement of Cement and Polypropylene Fibre'. Recent Developments in Sustainable Infrastructure: Research and Practices (ICRDSI2020), School of Civil Engineering, KIIT Deemed to be University, Bhubaneswar.
2. R.Prakash,N.Divyah,R.U.DeepakandC.VijayaPrabha 2020, 'Experimental Study of Glass Fibre Reinforced Concrete with Marble Powder as Partial Replacement of Cement'. Recent Developments in Sustainable Infrastructure: Research and Practices (ICRDSI2020), School of Civil Engineering, KIIT Deemed to be University, Bhubaneswar.
3. R. Prakash, N. Divya H, 2019. 'Experimental investigation of sustainable fibre reinforced lightweight eco-friendly concrete'. 1st International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019). SSN College of Engineering, Chennai-603110.
4. R. Prakash, N. Divyah, 2019. 'Mechanical characterisation of fibre reinforced lightweight concrete from agricultural waste'. 1st International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019). SSN College of Engineering, Chennai-603110.
5. K. Ramachandran, R. Prakash, 2019. Mechanical Characterisation of fibre reinforced lightweight concrete made from agricultural waste, 3<sup>rd</sup> International conference on Recent Trends in Engineering, Science and Technology, SBM College of Engineering and Technology, Dindigul.
6. R. Prakash, R. Thenmozhi, 2017, 'Study on Properties of Coconut Shell Aggregate and Compressive Strength of Coconut Shell Concrete', Proceedings of 5th International Conference on Research Trends in Engineering, Applied Science and Management (ICRTESSM-2017), IETE, Pune.

**National Conferences:**

1. T. Arunparakaash, R.Prakash, 2019. Experimental investigation of sustainable fibre reinforced lightweight eco-friendly concrete, National conference on Recent Trends in Civil Engineering (NCRTCE'19), Mother Teresa College of Engineering and Technology, Pudukottai
2. S. Santhoskumar, R. Prakash, 2018. Experimental study on the durability properties of fibre reinforced coconut shell concrete. National conference on advanced techniques in concrete, Environmental and Geotechnical Engineering NC-ATCEGE'18, Kings College of Engineering, Pudukottai.
3. M. Jeeva, R. Prakash, R. Thenmozhi, 2017. Experimental study on mechanical properties of fibre reinforced coconut shell aggregate concrete. Proceedings of the National conference on Recent Innovation in Civil Engineering, Mohamed Sathak Engineering College (RICE 2K17), Kilakarai.
4. P.M. Ganesh babu, R. Prakash, R. Thenmozhi, 2017, 'Flexural toughness characteristics of steel-polypropylene hybrid fibre reinforced coconut shell concrete', Proceedings of the National conference on Recent Innovation in Civil Engineering (RICE 2K17), Mohamed Sathak Engineering College, Kilakarai.
5. R. Prakash, 2016. Engineering properties and structural behavior of geopolymer concrete. 2<sup>nd</sup> National Conference on Civil Engineering for Sustainable Development NCCESD-16, Nadar Sarawathi College of

**Guest Lectures delivered:**

1. Delivered a lecture on “Green buildings” at Sri Rajarajan College of Engineering and Technology, Karaikudi on 26.09.2015
2. Delivered a lecture on “Special concretes” at Sri Rajarajan College of Engineering and Technology, Karaikudi on 19.09.2015

**Books Published:**

Title: Handbook of Sustainable Concrete and Industrial Waste Management, Chapter 6: Eco-friendly fibre-reinforced Concrete, 2022, Publisher: Elsevier

**Academic & Administrative responsibilities held:**

1. Department Placement Coordinator
2. Civil Engineering Association Officer In charge
3. Faculty Advisor for B.E. Class (2019-2020 Batch)
4. In charge of Soil Mechanics Lab.
5. Department Entrepreneurship Development Cell Coordinator
6. A member of College Institution Innovation council
7. BOG state Government Nominee

**Memberships in Professional Societies:**

Professional member in Institute of Scholars, Bangalore (Id: InSc202001896)

**Workshop / FDP Organized :**

S.No.	Title of the Course	Name of the Institution	Duration
1	Webinar on Career Opportunities in Civil Engineering conducted by Mr.R.Sugumar, Scientist, Engineer-SC, Vikramsarabhai Space Centre ISRO for 74 BE students	ACGCET	07.06.2020
2	“Introduction to Structural Engineering”	ThanthaiPeriyar Govt. Institute of Technology, Vellore ISTE,MHRD (Coordinated IIT video conferencing workshop)	26.11.2013 to 06.12.2013

**Workshop / FDP Attended :**

S.No.	Title of the Course	Conducted By	Place	Duration
1	Industrial Training on Telecom Tower Construction	Industrial Training Program for Faculty conducted by RGM TTC, BSNL	BSNL, Karaikudi	15.5.2020 to 05.06.2020
2	Effective Online Teaching Methods	Dr. N.G.P. INSTITUTE OF TECHNOLOGY, Coimbatore	Online	June 8 - 14, 2020
3	Emerging Trends in Building Construction Technology	RISE Krishna SaiPrakasham Group of Institution Prakasam District, AP.	Online	24th - 25th June 2020
4	Advanced E-Learning in Structural Engineering Design Concepts	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, Coimbatore	Online	29th June 2020 to 01st July 2020
5	Multi-Disciplinary Approaches in Civil Engineering	NallaNarashima Reddy Education Society's Group of Institution. Medchal (Dist), Hyderabad	Online	29.06.2020 to 03.07.2020
6	Being a Super Teacher	BANNARI AMMAN INSTITUTE OF TECHNOLOGY, Erode	Online	July 6 to July 12, 2020
7	Advanced Strategies and Approaches in Civil and Environmental Engineering	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, Coimbatore	Online	14th July 2020 to 19th July 2020
8	Recent Trends & Research Opportunities in Civil engineering Field	Alagappa Chettiar Govt. College of Engineering & Technology, Karaikudi	Karaikudi	19-11-2018 to 30-11-2018
9	FDP on "Principles of Corrosion and Corrosion Prevention in Engineering Industries"	Alagappa Chettiar Govt. College of Engineering & Technology, Karaikudi	Karaikudi	27.11.2017 to 3.12.2017
10.	One week ISTE STTP for Coordinators on "Introduction to Structural Engineering"	IIT, Karaghpur	Karaghpur	28.09.2015 to 02.10.2015
11	Two week ISTE workshop on "Fluid Mechanics"	TPGIT, Vellore (MHRD)	Vellore	20.05.2014 to 30.05.2014
12	One week FDP on "Rehabilitation of Highway Pavement Structures"	ACCET, Karaikudi (TEQIP)	Karaikudi	12.12.12 to 18.12.12
13	Two week ISTE workshop on "Aakash for Education"	TPGIT, Vellore (MHRD)	Vellore	10.11.2012 to 11.11.2012
14	Two weeks software training programme on Analysis and	TPGIT, Vellore	Vellore	13.08.2012 to

	Design of Structures using STAAD Pro			29.08.2012
15	Two week ISTE workshop on “Introduction to Research Methodologies”	TPGIT, Vellore (MHRD)	Vellore	25.06.2012 to 04.07.2012
16	Two week ISTE workshop on “Computational Fluid Dynamics”	TPGIT, Vellore	Vellore	12.06.2012 to 22.06.2012
17	FDP on “ Spatial Information Technologies for Soil & Water Resources Monitoring & Management”	ACCET, Karaikudi	Karaikudi	05.12.11 to 18.12.11
18	FDP on “New Trends in Nano Science & Technology”	ACCET, Karaikudi	Karaikudi	27.09.2010 to 11.10.2010
19	Two week FDP on “Image Processing in Engineering Application”	ACCET, Karaikudi	Karaikudi	03.05.2010 to 15.05.2010
20	FDP on Limit State Design of steel Structures using IS 800-2007	GCE, Salem	Salem	09.02.2009 to 13.02.2009
21	Three week training programme on “STAAD Pro”	ACCET, Karaikudi	Karaikudi	22.07.2008 to 11.08.2008
22	Two week FDP on “Advanced Techniques in Earthquake Engineering”	ACCET, Karaikudi	Karaikudi	20.06.11 to 02.07.11
23	FDP on “ANSYS LEVEL I Tools”	ACCET, Karaikudi	Karaikudi	05.09.2007 to 14.09.2007
24	Three day workshop on “Repair and rehabilitation of structures”	ACCET, Karaikudi	Karaikudi	17.09.2007 to 19.09.2007
25	Three day workshop on “Geographic Information System”	ACCET, Karaikudi	Karaikudi	11.06.2007 to 13.06.2007

#### **Any other Information:**

Received “**Research Excellence Award**” from Institute of Scholars, Bangalore, for the paper “*Characterization of eco-friendly steel fiber-reinforced concrete containing waste coconut shell as coarse aggregates and fly ash as partial cement replacement*” Structural Concrete 21 (1), 437-447, 2020.

#### **ACADEMIC IDENTITY**

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57208704617>

RG: [https://www.researchgate.net/profile/R\\_Prakash6](https://www.researchgate.net/profile/R_Prakash6)

GS: <https://scholar.google.co.in/citations?user=M1B-FYEAAA&hl=en>

ArcID: <http://orcid.org/0000-0002-4695-0234>