

## Curriculum Vitae



1. **Name:** Dr. Anil Kumar

2. **Office Address:** **Scientist**

Geotechnical Engineering Division

CSIR-Central Road Research Institute Delhi-Mathura Road New Delhi-110025

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3. **Areas of Interest / Work:** Geotechnical Engineering, Ground Improvement Techniques

### 4. Educational Qualification

Degree	Year of Passing	University/ Institute	Subject	Division/ Class/Grade
Ph.D	2018	National Institute of Technology Surathkal, Karnataka	Geotechnical Engineering	-
M.Tech.	2010	National Institute of Technology Surathkal, Karnataka	Geotechnical Engineering	First Class with Distinction
BE	2008	N.M.A.M.I.T, Nitte, Karnataka	Civil Engineering	First Class with Distinction

### 5. Professional Experience

Starting from	Upto	Position Held	Organisation
01/02/2021	Till Date	Scientist	Central Road Research Institute, New Delhi
16/06/2014	15/01/2021	Asst. professor	Nitte Mahalinga Adyanthaya Institute of Technology, Nitte, Karnataka
05-07-2013	31-05-2014	Asst. professor	Alvas Institute of Engineering and Technology, Mijar, Karnataka

20-07-2012	10-04-2013	Temporary Lecturer	National Institute of Technology, Surathkal, Karnataka
08-06-2011	12-06-2012	Asst. professor	Srinivas School of Engineering, Mukka, Karnataka
22-07-2010	02-06-2011	Temporary Lecturer	National Institute of Technology, Surathkal, Karnataka

## 6. Membership of Professional Bodies / Technical Committees

SL No.	Particulars
1.	Member of Indian Society for Technical Education(MISTE)
2.	Indian Society of systems for science and engineering (ISSE)
3.	Indian Road congress(IRC-Student Member)
4.	American Society of Civil Engineers (ASCE-Student)

## 7. Achievements:

### a) Honours/ Awards/ Significant Achievements

1. Editor of select proceedings of 2019 "Trends in Civil Engineering and challenges for sustainability" Springer

### b) Research Projects as Principal Investigator (Completed)

1. Chief Project Coordinator: Anil Kumar, "Manufacture of Geo-Polymer Masonry Blocks" (KBITS-Funded by 3lakhs)
2. Chief Project Coordinator: Anil Kumar, "Investigation On the Effect of Reinforcement On the Compressive Strength of Masonry Blocks Using Industrial Waste (KBITS-Funded by 3lakhs)
3. Chief Project Coordinator: Study On the Strength Properties of Reinforced Fly Ash and GGBS Based Masonry Blocks (KBITS-Funded by 3lakhs) 2014-2015.
4. Project advisor "Stabilization of Lithomargic Soil Using Alkali Activated Flyash (KSCST FUNDED PROJECT) 2014-2015

### c) Research Projects as Principal Investigator (Ongoing)

1. OLP-0636: BEHAVIOUR OF MUNICIPAL SOLID WASTE UNDER CYCLIC LOADING-CRRI

### d) Research Projects as Member (Ongoing)

1. GAP-4667: Delhi Cluster- "Delhi Research Implementation and Innovation" (DRIIV), Theme Solid Waste Management, WP-6 Use of construction & demolition wastes, incinerated residues in road construction.
2. CNP-2711: Creation of Research and Development Facilities and a Centre of Excellence in Highway Sector for BSRDC, Patna Bihar.
3. SSP-4662: Recycling of Ghazipur Municipal Solid wastes for Road Embankment and subgrade construction
4. SSP-4665: Utilization of Red mud for Road and Structural fill applications

### e) Research Publications

1. **Kumar, Anil.** & George, Varghese (2018), "Effect of Soil Parameters on Resilient modulus using Cyclic Tri-axial tests on Lateritic Sub-grade Soils from Dakshina Kannada, India"

- Geotechnical and Geological Engineering (Springer), Published online 27 April 2018. <https://DOI.org/10.1007/s10706-018-0550-7>.
2. Varghese George and **Anil Kumar** (2016) "Studies on Modulus of Resilience using Cyclic Tri-axial Test and Correlations to PFWD, DCP, and CBR" International Journal of Pavement Engineering (Taylor and Francis) online publication 2016 (<http://www.tandfonline.com/action/showCite> DOI=10.1080/10298436.2016.1230428).
  3. George, Varghese and **Kumar, Anil** (2017) "Effect of Soil Parameters on Modulus of Resilience Based on Portable Falling Weight Deflectometer Tests on Lateritic Sub-grade Soils", International Journal of Geotechnical Engineering (Taylor and Francis), published online : 22 Nov 2017. DOI: 10.1080/19386362.2017.1403075.
  4. **Anil Kumar**, N. R. Pavan Prasad, and S. K. Sujith, (2020), "Study on Effects of Hooked-End Steel Fiber-Reinforced Concrete" Trends in Civil Engineering and Challenges for Sustainability, Lecture Notes in Civil Engineering(Springer) pp.171-183, 99, [https://doi.org/10.1007/978-981-15-6828-2\\_14](https://doi.org/10.1007/978-981-15-6828-2_14) .
  5. **Anil Kumar**, Hebbar Adithya, Kumara Amith, Shetty Akshar, and Rakshitha ,(2020), "Experimental Investigation on the Effect of Polyurethane Foam on Black Cotton Soil" Trends in Civil Engineering and Challenges for Sustainability, Lecture Notes in Civil Engineering(Springer) pp.421-432, 99, [https://doi.org/10.1007/978-981-15-6828-2\\_31](https://doi.org/10.1007/978-981-15-6828-2_31)
  6. **Anil Kumar**, Shivaleela, Amina Maureen,(2020), "Development of Mobile Application for Computing SBC of Soil" Trends in Civil Engineering and Challenges for Sustainability, Lecture Notes in Civil Engineering(Springer) pp.433-445, 99, [https://doi.org/10.1007/978-981-15-6828-2\\_32](https://doi.org/10.1007/978-981-15-6828-2_32)
  7. Ashwini Prabhu, S. P. Arpith, K. K. Vahida, Dishanth Kumar, Arunkumar Bhat, and **Anil Kumar** (2020), " Overlay Design of Flexible Pavements Using Benkelman Beam Deflection Method—A Case Study, Trends in Civil Engineering and Challenges for Sustainability, Lecture Notes in Civil Engineering(Springer) pp.475-491, 99, [https://doi.org/10.1007/978-981-15-6828-2\\_36](https://doi.org/10.1007/978-981-15-6828-2_36)
  8. Shriram Marathe, N Bhavanishankar Rao and **Anil Kumar** (2017), "Behaviour of Concrete Masonry Blocks Provided with a Reinforced Layer" International Journal of Earth Sciences and Engineering, ISSN 0974-5904, P.P.1007, Vol-10 October 2017.
  9. **Anil Kumar**, Varghese George, Sriram Marathe "Establishing Relationships for Strength Characteristics of Lateritic Soils with Varying Silt Fractions" International Journal of Earth Sciences and Engineering , ISSN 0974-5904, P.P.885-887, Vol-9 August 2016.
  10. C M Ravi Kumar, **Anil Kumar**, M H Prashanth, D Venkat Reddy , "Experimental Studies on Iron –ore tailing based Interlocking Paver blocks", International Journal of Earth Sciences & Engineering, Vol 05, No.03 (June 2012), pp 501-504.
  11. C.M. Ravi Kumar, M. B. Sreenivasa, **Anil Kumar**, M. Vijay Sekhar Reddy. "Seismic Vulnerability Assessment Of RC Buildings With Shear Wall", International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 [www.ijera.com](http://www.ijera.com) Vol. 3, Issue 3, May-Jun 2013, pp.646-652.
  12. Shriram Marathe, Bhavani Shankar Rao, **Anil Kumar**. "Stabilization of Lithomargic Soil Using Cement and Randomly Distributed Waste Shredded Rubber Tyre Chips" International Journal of Engineering Trends and Technology(IJETT) Volume-23 Number 6- May 2015.
  13. **Anil kumar**, Anoop kishan k, Divakar L, Sudheer. "Study on Compressive Strength of Concrete Using Areca Fibre as Reinforcement" International Journal of Engineering Trends and Technology(IJETT) –Volume 24 Number 3-June 2015.

14. Prashanth M.H., Indrani Gogoi, **Anil kumar**, and Ravi Kumar C.M. "Experimental Studies on Use of Helix Fibers in Concrete", NITK Research Bulletin Vol 21 No 2 Dec 2012.
15. M Vijay Sekhar Reddy, I V Ramana Reddy, C M Ravi Kumar, Sumanth Doodala, K. Abdul Raheem, **Anil Kumar**. "Experimental Studies on compressive strength and durability aspects of high performance concrete of grade M80 and M90. Published in TECH mantra, technical Magazine Vol-II, No.2, 2013.
16. **Anil Kumar**, Shriram Marathe, Vikram R, Nagraj Shenoy, Vaishnavi L Bhat, Venkatesh A. "Stabilization of Lithomargic Soil Using Alkali Activated Fly-Ash with GGBS" International Journal of Constructive Research in Civil Engineering (IJCRCE) Volume 1, Issue 1, July 2015, PP 19-23 www.arcjournals.org ©ARC Page 19.
17. Shriram Marathe , Bhavani Shankar Rao , **Anil Kumar** "Stabilization of Lithomargic Soil Using Cement and Randomly Distributed Waste Shredded Rubber Tyre Chips" , "International Journal of Engineering Trends and Technology (IJETT) – Volume 23 Number 6 - May 2015" ISSN: 2231-5381, PP 284-288.
18. Shriram Marathe, **Anil Kumar**, Avinash, " Stabilization of Lateritic Soil Subgrade Using Cement, Coconut Coir and Aggregates", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 4, Issue 12, December 2015, [http://ijirset.com/upload/2015/december/33\\_Stabilization.pdf](http://ijirset.com/upload/2015/december/33_Stabilization.pdf) .
19. Shriram Marathe, **Anil Kumar**, Avinash, " Investigation on Fatigue and Durability Behaviour of Lateritic Soil Stabilized With Cement" International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol.5, Issue 1, January 2016, PP 437-444. [http://ijirset.com/upload/2016/january/64\\_Investigation.pdf](http://ijirset.com/upload/2016/january/64_Investigation.pdf).
20. **Anil kumar**, Varghese George, Shriram Marathe, "Stability Analysis of lateritic soil Embankment sub-grade Using plaxis-2D", International Journal for Research in Civil Engineering", Vol.2, Issue 1, January 2016.
21. **Anil Kumar** and Devika Rani. "Performance of Concrete using Paper Sludge Ash and Foundry Sand" International Journal of innovative research in science, engineering and Technology (IJIRSET) Volume 5, Special issue 9, may 2016.
22. **Anil Kumar** and Akshatha Shetty "Strength Characteristics of Concrete Using Paper Sludge Ash and Foundry Sand" International Journal of Constructive Research in Civil Engineering (IJCRCE) Volume 2, Issue 3, 2016, PP 33-39 ISSN 2454-8693 (Online) DOI: <http://dx.doi.org/10.20431/2454-8693.0203005>
23. **Anil Kumar**, George Varghese, and Verma Rakesh (2013). "Shake-Table and Its Applications in Fields of Research in Civil Engineering", NITK Research Bulletin, Vol. 22, No. 1, Jul., pp. 27-29.

#### f) International and National Conferences

1. **Anil kumar**, Saeesh Kadwadkar, Anisha Shetty, Ayesha Arefa, Mohammed Sarthaz and Deekshith Hegde (2018). "Behavior of Black Cotton Soil Stabilized with Lime and Foundry Sand". ICETE-2018. Department of Civil Engineering, N.M.A.M Institute of Technology, Nitte, Karnataka.
2. **Anil kumar** Ayesha Arefa, Deekshith Hegde , Anisha Shetty K , Mohammed Sarthaz, Saeesh Kadwakar (2018), "Determination of Resilient Modulus based on CBR and PFWD on treated Black Cotton Soil" ISBN: 978-81-934215-1-2, national level conference JnanaSangama 2018 held at VCET, Puttur.
3. Vishnu Prasada Kalluraya M, and **Anil Kumar** "Investigation on the Behaviour of Solid Masonry Blocks Manufactured Using Alkali Activated Geo- Polymer Concrete" Special issue of NMAMIT Annual research Journal, 2016-17.

4. Shriram P Marathe, **Anil kumar** and Ravi Kumar C.M.(2013) “Experimental Studies on Geopolymer Concrete Containing Flyash and Ground Granulated Blast Slag” National Conference on Recent Advances in Civil Engineering.
5. C.M. Ravi Kumar, Prashanth M.H, **Anil Kumar**, M. Vijay Sekhar Reddy (2013) “Seismic Performance Evaluation of RC Buildings With Shear Wall” (published in Manipal Conference 2013).
6. **Anil Kumar**, Varghese George, Shriram Marathe and Naveen (2015) “Strength characteristic of Lateritic soil with varying Silt fractions”, International Conference on Emerging Trends in Engineering (ICETE- 2015), International Conference held in NMAMIT-Nitte, Karnataka, India. May 2015.
7. **Anil Kumar** and Devika Rani. “Performance of Concrete using Paper Sludge Ash and Foundry Sand” International Conference on Emerging Trends in Engineering-ICETE -May-2016.