

### Faculty Profile

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| <b>Faculty</b>                                                                    | <b>Mrs Rajani V Akki</b><br><b>Assistant Professor</b><br><b>Department of Civil Engineering</b><br>East Point College of Engineering & Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  | <b>Profile*</b><br>Prof. Rajani V Akki did her B E. in Civil Engineering from JNNCE, Shimoga under VTU in 2012 .She did her M.Tech in Construction Technology from KIT, Mangalore in 2014 She completed her Ph.D. under VTU in July 2024 . She has published 6 patent and 7 research papers in various International SCOPUS indexed journals. Her area of interest includes concrete technology, CAD , STAAD PRO. She has an experience of 9 years in teaching. She handled Elements of Civil Engineering, Concrete Technology, Pre-stressed Concrete Structures, Innovation & Design Thinking for various semesters of B.E and M.Tech                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                   | <b>Publications</b> <ol style="list-style-type: none"> <li>1. “Low cost automatic irrigation system using soil moisture sensors” ,Vidhyabharati International Interdisciplinary Research Journal (special issue) 2021 ISSN 2319-4979</li> <li>2. “A Performance based Approach on the Durability of carbonated Concrete” , Iconic Research and Engineering Journal 2022 ISSN 2456-8880</li> <li>3. “Planning, Scheduling and Allocation of Resources for G+1 Structure Using Primavera P6 Software” Vidhyabharati International Interdisciplinary Research Journal (special issue) 2021 ISSN 2319-4979</li> <li>4. “A Performance based Approach on the Durability of carbonated Concrete”, Iconic Research and Engineering Journal 2022 ISSN 2456-8880</li> <li>5. “Performance of concrete with mineral admixture under carbonation exposure : An experimental approach “ Journal of Engineering and technology management 76(2025)</li> <li>6. “Durability properties of Cement Concrete Using Laterite as partial Replacement of Natural aggregate “ “International Research Journal of Engineering and Technology (IRJET) volume 11, issue 6, june 2024. E-ISSN:2395-0056, p- ISSN:2395-0072</li> <li>7. “Sustainable Use of Alternative Materials in Rigid Pavements” Degres Journal , ISSN No.0376-8163</li> </ol> |
|                                                                                   | <b>Books</b><br><input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                   | <b>Magazines</b><br><input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                   | <b>Conferences</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|  | <ol style="list-style-type: none"> <li>1. “Planning,Schduling and Detailing of Multi Speciality Hospital” National Conference on Recent Advances in Material Science in Engineering(RAME-2023) ISBN:978-81-965079-2-3</li> <li>2. “Strength Analysis of Stabilized Mud Blocks” National Conference on Recent Advances in Material Science in Engineering(RAME-2023) ISBN:978-81-965079-2-3</li> <li>3. “Characterisation of Flexible concrete Pavements using demolition waste and laterite” International conference on Interdisciplinary Approches In Civil Engineering for Sustainable Development in 2023</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  | <ol style="list-style-type: none"> <li>4. “Experimental study on Plastic Blocks” National conference on Recent Multidisciplinary Research in Civil Engineering NCRMRC 2023 ISBN: 978-93-5906-279-2</li> <li>5. “Effect of fly ash and pond ash in shrinkage properties of natural fibres sisal , abaca, basalt” International conference on Global Convergence in Technology, Entrepreneurship, Computing &amp; Value in Engineering: Principles and Practices, ICGCP 2023 ISBN: 9798392733033</li> <li>6. “Reliability analysis on Civil infrastructure by stochastic process approach based on field test data uncertainty of material properties and load effect” , “2<sup>nd</sup> international conference on Science and technology for sustainable future(ICSTSF)-2026 during 29<sup>th</sup> and 30<sup>th</sup> January 2026</li> </ol>                                                                                                                                                                                                                                         |
|  | <b>Achievements / Awards / Recognitions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  | Patent :<br><ol style="list-style-type: none"> <li>1. “ An Intelligent traffic management system using Hybrid Graph. Theorotical and fuzzy Logic echniques” published on 03/07/2026,application no. 202641078652A”</li> <li>2. “Enhanced concrete Composites Incorporating Silica Flume waste for improved carbonation durability” published on 06/02/2026, application no. 202641007328A</li> <li>3. “Enhanced concrete composites with optimized marble dust for improved mechanical properties” published on 28/03/2025, application no. 202541023320A</li> <li>4. “Sustainable geopolymer concrete developed with flyash and sugarcane baggass ash under ambient cured condition” published on 18/7/2025 , application no.202541065690</li> <li>5. “Enhanced soil composites with optimized natural additives for improved mechanical properties” published on 26/04/2024 , application no. 202441031963A</li> <li>6. “ A method for Producing Robus Concrete Using Domestic treated wastewater and uses thereof ” published on 15/04/2022, Application no. 202241018413A</li> </ol> |