

**Name:** Dr.C. FREEDA CHRISTY

**Designation:** Associate Professor

**Department:** Civil Engineering

**Name of the Organization / Institution:** Karunya Institute of Technology and Sciences

**Place:** Coimbatore

**Pin code:** 641 114

**Whether affiliated to Anna University:** Yes

**Mobile:** +91 9994857568

**E-Mail:** [freeda@karunya.edu](mailto:freeda@karunya.edu)

**Area of Specialization:** Seismic resistant structures, Concrete

## **Publications:**

**2015:**

1. Biju Mathew, **C.Freeda Christy**, Dr. Benny joseph, “Tensile Strength characteristic of Concrete Using Laterite as Fine Aggregate”, *International Journal of Social Sciences and Interdisciplinary Research*, Vol. 4 (4), APRIL (2015), pp. 76-83
2. **C. Freeda Christy**, Asish Prasad, D. Tensing, “Fracture Mechanics of Masonry Panel for In-Plane Loading”, *Journal of Civil and Construction Engineering*, Vol 1, No 1 (2015), pp 1 - 12
3. Samuel Thanaraj. M, **Freeda Christy. C**, Brema.J, “Performance of Different Types of Stone Columns in Soil Stabilization – A Review”, *International Journal of Engineering Technology Science and Research*, Volume 2, September 2015, pp 73 -82
4. Zimri, **Freeda Christy C**, “Review on Monopile Foundation for Fixed Offshore Structure”, *International Journal of Engineering Research and General Science*, Volume 4, Issue 1, January- February, 2016, pp 379 - 388
5. Jagadheeswari A.S., **Freeda Christy C**, “Performance Based Analysis of Tall Buildings”, *IOSRD International Journal of Engineering*, Volume 3, Issue 1, February 2016, Pages 1-6

6. Benjamin Raison R; **Freedra Christy C**, “Review on Shear Slip of Shear Keys in Bridges, “International Journal of Scientific and Engineering Research”, Volume 7, Issue 4, April-2016, pp 231 -241
7. Benny Gabriel Jebaraj and **Freedra Christy C**, “CFD Simulations of Flow Around Octagonal Shaped Structures”, *Journal of Engineering Science and Technology Review*, Vol. 9 (5) (2016), pp 72 – 76 (SJR – 0.162, SNIP : 0.552) (**scopus indexed**)
8. Mathew, B., **Christy, F.C.**, Joseph, B., Anuragi, P., “An experimental study on properties of cement mortar by replacement of natural sand with manufactured sand”, *International Journal of Civil Engineering and Technology*, Vol.7 (4), 2016, pp. 483-490 (**scopus indexed**)
9. Jagadheeswari A.S., **Freedra Christy C**, “Optimum position of multi outrigger belt truss in tall buildings subjected to earthquake and wind load”, *International Journal of Earth Science and Engineering*, Volume 09, No. 03, June 2016, P.P.373-377 (**scopus indexed**)
10. Biju Mathew, **Freedra Christy C**, Souyma C, Benny Joseph, “Study on Strength of Concrete by Partial Replacement of Fine Aggregate with M-Sand and Laterite with Super plasticizers”, *International Journal of Engineering Trends and Technology (IJETT)* – Volume 38 Number 8- August 2016, pp 413 – 416
11. Biju Mathew, **C. Freedra Christy**, Benny Joseph, “Suitability of Partial Replacement of Sand with Laterite from Malabar Regions of India in Structural Concrete”, *International Journal of Civil Engineering and Technology*, Vol: 8 No: 03, March 2017, pp 262 – 272 (**scopus indexed**)
12. Mudigonda Harishkumar, Dr. C. **Freedra Christy**, A Critical Review on literature, use of Crumb Rubber in wet mix macadam of a asphalt pavement”, *International Journal of Current Engineering and Scientific Research (IJCESR)*, Volume-4, Issue-7, 2017, pp 80 -82
13. Jobil Varghese, **C.Freedra Christy**, Katta Venkattaramana, “Offshore wind energy potential along Indian Coast”, *International Journal of Civil Engineering and Technology (IJCIET)*, Volume 9, Issue 7, July 2018, pp. 1480–1486 (**scopus indexed**)
14. Mathew, B. **Freedra Christy, C.**, Joseph, B., “An investigation of laterite as fine aggregate to develop eco-friendly mortar(Conference Paper)(Open Access) IOP Conference Series: *Materials Science and Engineering*, Volume 431, Issue 8, 15 November 2018 (**scopus indexed**)
15. M. Samuel Thanraj, **C.Freedra Christy**, J. Brema, “Analysis on the performance of stone columns with different materials in soil stabilization”, *International Journal of Engineering and Advanced Technology*, Vol. 8(3), pp. 148-153, 2019(**scopus indexed**)

16. George, Rachel, **Christy, C.Freeda.**, Abraham, D.Samuel., “Optimum location of the offshore wind turbine along western coastal line of india”, *International Journal of Engineering and Advanced Technology*, Volume 8, Issue 3, February 2019, Pages 137-141 (**scopus indexed**)
17. Vincent Sam Jebadurai, S., Tensing, D.,**Freeda Christy C.**, “Enhancing Performance of Infill Masonry with Skin reinforcement Subjected to Cyclic Load”, *International Journal of Engineering, Transactions B: Applications Open Access*, Volume 32, Issue 2, 2019, Pages 223-228 (**scopus indexed**)
18. Kumar, M.H., **Freeda Christy C.** “Literature review on modified base course of a flexible pavement to control fatigue cracking”, *International Journal of Innovative Technology and Exploring Engineering*, Volume 8, Issue 5, 2019, Pages 1-3 (**scopus indexed**)
19. Mudigonda Harish Kumar, **C.Freeda Christy**, “Strength Analysis On Materials Used In Unconventional Wet Mix Macadam of Asphalt Pavement”, *International Journal of Advanced Science and Technology* Vol. 29, No. 6, (2020), pp. 5118 - 5127
20. Oshin Victor, Freeda Christy C, Kavitha S and Padmanabhan D, “Recovering of Cracks in Concrete to Enhance Its Strength by Bacillus licheniformis - A Biomineralization Study”, *International Journal of Advanced Science and Technology* Vol. 29, No. 6, (2020), pp. 5723 - 5731