Dr.P.ManibalanM.E., Ph.D.,

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Dr.P.Manibalanworking as an Assistant Professor in the Department of Civil Engineering at SRMIST,Ramapuram. He graduated in Civil Engineering at Arunai Engineering College affiliated with anna university,Chennai,Tamilnadu, India. He secured a Master of Engineering in the stream of Structural Engineering at Annamalai University, Chidambaram, Tamilnadu, India. Hehas done his Doctoral study in the Department of Civil and Structural Engineering at Annamalai University, Chidambaram. The title of the thesis project is "Experimental and Numerical Investigation on Concrete Beam Using Basalt Fibre." He is in the teaching profession for more than 8 years. He has presented more papers in National and International journals, conferences, and symposiums. He mainly focuses the research on the usage of natural and eco-friendly fiber in improvising the properties of concrete. His avid interest and motivation towards research have kept enforcing to work long. In this regard, He published two papers in Springer and one in Elsevier in 2022. He also worked on various initiatives, including the development of fiber-reinforced concrete, the use of BFRP to strengthen structures, the addition of eco-friendly materials to concrete, a substitute for steel reinforcement, and a solution to the scarcity of river sand.

Areas of Research

Fiber reinforced concrete- Structural Engineering

Publications

- 1. Manibalan P,Abirami M, BaskarR and PannirselvamN.(2022), Ductile Behavior of Reinforced ConcreteBeamIncorporated byBasaltFiber.Innovative Infrastructure Solution. 8, 65 (2023). <u>https://doi.org/10.1007/s41062-023-01033-9</u>. (Springer Journal)
- 2. Manibalan P, Kesavan S, Abirami G. & Baskar R. Fatigue Response of RC Beam Strengthened by BFRP Laminate. Case Studies in Construction Materials. 18 (2023) e01707. https://doi.org/10.1016/j.cscm.2022.e01707. (Elsevier Journal)
- 3. Manibalan, P, Abirami, G. & Kesavan, S. Flexural response of RC beam strengthened with BFRP plate. Innovative Infrastructure Solution. 7, 142 (2022). https://doi.org/10.1007/s41062-022-00743-w.(Springer Journal)
- 4. Manibalan P, Baskar R, and Pannirselvam N. (2020), Flexural Behaviour of Reinforced Concrete BeamUsingBasaltFiber,InternationalJournalofMechanicalandProductionEngineeringResearchandDevelopment(IJMPERD),Vol.10,I ssue3,June2020,pp.16055-16064(SCOPUSIndexedJournal)
- 5. ManibalanP,andBaskarR.(2020), ExperimentalStudyonMechanicalPropertiesofBasaltFiberReinforced Concrete, Journal of Critical Reviews (JCR), Vol. 7, Issue 13, June 2020, pp. 353-357(SCOPUSIndexedJournal)
- Manibalan P, and Baskar R. (2019), An Influence of Basalt Fiber on Mechanical Properties of Concrete, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, Issue 3, Sept 2019, pp.2909-2912 (SCOPUS Indexed Journal)
- 7. Manibalan P, Subbulakshmi T and Kavitha P. (2018), A Parametric Study on the Flexural Behaviour ofHigh-PerformanceConcreteBeamsbyIndustrialby Products,ElixirCivilEngineering,pp.51208-51211.
- 8. ManibalanP,andBaskarR. (2017),StudyonImpactStrengthofConcretebyusingBasaltFiber,International Journal of Innovative Science and Research Technology, Vol. 2, Issue 4, April 2017, pp.373-377.
- 9. Manibalan P, and Amirtharaj S. (2015) "Effect of cutoff opening in RCC slab over the moment on beams offramedstructure" International Conference on Advancement in Engineering and Technology, 13th and 14th March.

<u>Achievement</u>

- Research paper published in SCI-indexed journal.
- NPTEL online certification completed with Silver Medal in Project Planning & Control.
- NPTEL online certification completed with Elite in Advanced Topics in the Science and Technology of Concrete.

- NPTEL online certification completed with Elite in Structural Dynamics
- BESTPAPERAWARDinNationallevelconference-"SUSTAINABLECIVILENGINEERINGMATERIALSANDSTRUCTURES(2018)"atDr.N.G.PInstituteofTechnology,Coimba tore.
- "StudyonImpactstrengthonconcretebyusingBasaltFiber" paperispresented inaNationalConferenceonEngineeringTrendsandChallenge sinCivilEngineering,29thDecember.

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