

## Name of the Department: Civil Engineering

Name of the Faculty		Dr. R. VIGNESH			
Designation		ASSISTANT PROFESSOR			
Contact details	Intercom	-			
	Mobile	8508309484			
	Email	<a href="mailto:vignesh.r@eec.srmrmp.edu.in">vignesh.r@eec.srmrmp.edu.in</a> <a href="mailto:vignesh.thestern@gmail.com">vignesh.thestern@gmail.com</a>			
Qualification		UG	B.E	Civil Engineering	
		PG	M.E	Structural Engineering	
		Ph.D		Civil Engineering	
Specialization / Major areas of Research		Artificial aggregates, Use of Sustainable Construction Materials in concrete, Supplementary Cementitious Materials (SCMs), Optimization in Civil Engineering			
Experience		Teaching: 4	Industry: -	Research:- 4 [F.T]	
Papers Published in Journals		International : 03		National : 03	
Papers Presented in Conferences		International : 04		National : 03	
*Awards / Achievements / Funded Projects / Consultancy					
Received " <b>Raman Research Award</b> " for research article publication in high impact factor journals Awarded as " <b>Best Faculty Award</b> " in Department of Civil Engineering of the year 2017 - 2018 at M.Kumarasamy College of Engineering (Autonomous), Karur. Awarded as " <b>Best Outgoing Student</b> " during the academic year of 2013-2014 in RVS Educational Trust Group of Institutions, Dindigul					

## **Publications:**

### **Journals:**

1. **Vignesh, R., & Rahim, A. A.** (2024). Multi-response Optimization of Fiber-Reinforced-Shaped Synthetic Aggregate Concrete. *Arabian Journal for Science and Engineering*, 49(4), 5027-5054. DOI: <https://doi.org/10.1007/s13369-023-08305-7> (Scopus & SCI indexed – I.F- 2.9)
2. **Vignesh, R., & Abdul-Rahim, A.** (2023). New insights into the production of sustainable synthetic aggregates and their microstructural evaluation. *Materiales de Construcción*, 73(351), e324. <https://doi.org/10.3989/mc.2023.328722> (Scopus & SCI indexed – I.F- 2.133)
3. **Vignesh, R., & Rahim, A. A.** (2022). Mechanical and microstructural properties of quaternary binder system containing OPC-GGBS-Metakaolin-Lime. *Materials Today: Proceedings*, 64, 970-975. <https://doi.org/10.1016/j.matpr.2022.05.074>

### **Conference/ Journal Publications:**

1. **Vignesh, R.,** (2019) Investigation of Strength and durability properties of Fly ash based geopolymer concrete on various curing techniques with M sand as fine aggregate, Proceedings of fourth International Conference on ICASET 2019 Organized by MPNMJ Engineering College, Erode.
2. **Vignesh, R.,** (2018). A study and investigation on strength parameters of polypropylene fiber reinforced concrete, *International Research Journal of Engineering IT & Scientific Research*. 5. 8-19.
3. **Vignesh, R.,** (2017) An Experimental Study on Self Compacting Concrete with partial replacement of Cement and Coarse aggregate by using Marble powder and Coconut shell, Proceedings of International Conference on Sustainable Practice in Civil Engineering (SPICE 2017) held on 10 & 11th April 2017 Organized by KPRIET, Coimbatore.
4. **Vignesh, R., & Prakash, J.** (2016). An Experimental Study on Self Compacting Concrete by Using Sugarcane Bagasse Ash, *International Journal of Engineering Science Advanced Computing and Bio-Technology*. 6. 5285-5289. <https://doi.org/10.4010/2016.1295>

### **Book Publications**

1. **Vignesh, R.,** A Prognosticative Study on Faculty Satisfaction by Using Microsoft Teams in Online Teaching during the Covid-19 Pandemic, Bonfring Publications, November 2020.

**Patents:**

- Published a patent on “Experimental Investigation in fiber intruded aggregate concrete by using synthetic aggregates” (Application no - 202241050125 - Under examination)
- Published a patent on “Strength and Resilience Features of Recycled Aggregate Concrete with Admixtures” (Application no - 202241029001)