


## Name of the Department: Civil Engineering

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Qualification		UG	B.E	Civil Engineering	
		PG	M.E	Structural Engineering	
		Ph.D		Structural Engineering	
Specialization / Major areas of Research		Steel concrete composite, Concrete structures, Steel structures, Structural dynamics			
Experience		Teaching: 9		Industry: 2	Research:5
Papers Published in Journals		International :12			National : -
Papers Presented in Conferences		International :8			National : 3

\*Awards / Achievements / Funded Projects / Consultancy

**Patent Published :** 202141061367A date: 14/01/2022

### Journals

- Mohan A, **Velraj Kumar G**, Prabha G, Dineshkumar R, Vijayan S and Ajith J (2022), " Non destructive test on reinforced concrete corroded column produced with fly ash", Journal of Environmental Protection and Ecology, Vol 23, No 8, (SCI - Accepted)
- Lavanayaprabha S, Mohan A, **Velraj Kumar G** and Mohammedharoonzubair A (2022), "Study On Structural Behaviour of Ductile High-Performance Concrete Under Impact and Penetration Loads", Journal of Environmental Protection and Ecology, Vol 23, No 6, PP 2380–2388. (SCI)
- **Velraj Kumar G**, Ajith J, Muthulakshmi S, Dineshkumar R and Nanthini Sri K V (2022), "Characterization of carbon fibre reinforced polymers sheet bonded RC beam with end anchorage under static and cyclic response", Journal of the Balkan Tribological Association, Vol 28, Issue 4, PP 522 – 536.(Scopus)
- **Velraj Kumar G**, Muralikrishnan R, Mohan A, Bala Thirumal R, Naveen John P (2022) , "Performance of GGBFS and silica fume on self compacting Geopolymer concrete using partial replacements of R-Sand", Materials Today proceeding. Vol 59, PP 909–917. (SCI)
- **Velraj Kumar G**, Muthuraj MP (2020), "Effect of position of hexagonal opening in concrete encased steel castellated beams under flexural loading", Computers and Concrete, Vol.26, No.1, PP 95-106. (SCI)
- **Velraj Kumar G**, Selvakumar S, Santhosh kumar K, Sivaram P, Sathiesh KM (2016), "Experimental Investigation On The Properties of Concrete With Plastic Pet (Bottles) As Fiber",

International Journal of Innovative Trends in Engineering, vol.16, No 04, PP 18-20.

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- Aysha H, Ramsundar K.R, Arun M and **Velraj Kumar G**,(2014) " An overview of interface behavior between concrete to concrete", International Journal of Advanced Structures and Geotechnical Engineering. ISSN 2319-5347, Volume 03, No. 02.
- Vivek Hareendran, Poornima V and **Velraj Kumar G** (2014), "Experimental investigation on strength aspects of internal curing concrete using super absorbent polymer", International Journal of Advanced Structures and Geotechnical Engineering. ISSN 2319-5347, Volume 03, No. 02.
- Jayanthi V, Manigandan M, **Velraj Kumar G** and Saravanan M,(2014) "Optimization of Truss Structures using cuckoo search algorithm", International Journal of Advanced Structures and Geotechnical Engineering. ISSN 2319-5347, Volume 03, No. 02.
- Ramakrishnan S, **Velraj Kumar G** and Ranjith S,(2014) " Behavior of cement-rice husk ash concrete for pavement", International Journal of Emerging Trends in Engineering and Development. Issue 4, Vol.1 (January 2014), pp. 31-41.
- Arun M, **Velraj Kumar G** and Ranjith S,(2013) "Behavior and shear strength of high strength reinforced concrete T- beams with stirrups", International Journal of Emerging Trends in Engineering and Development. Issue 3, Vol.6 (November 2013), No. 3, pp. 161-173.

#### Conferences

- **Velraj Kumar G** and Yogadharsha K V, " Behaviour of concrete encased steel castellated beam", National Conference on Advancements in sustainable materials, Design and Applications, 04 May 2022, M.Kumarasamy College of Engineering, Karur.
- **Velraj Kumar G**, Muralikrishnan R, Mohan A, Bala Thirumal R, Naveen John P, "Performance of GGBFS and silica fume on self compacting Geopolymer concrete using partial replacements of R-Sand", International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2021), 25-26 November 2021, D Y Patil College of Engineering and Technology, Kolhapur, Maharashtra, India.
- **Velraj Kumar.G** and Venkatesan T, "Experimental behavior of concrete encased steel tube column", International conference on Civil, mechanical, Chemical Engineering & Technology, SVS College of Engineering, Coimbatore, 23<sup>rd</sup> & 24<sup>th</sup> Feb 2018.
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- Velraj Kumar.G., Vivek hareendran and Poornima.v "Experimental investigation on strength aspect of internal curing concrete using super absorbent polymer" Proceedings of the Second International Conference on "Advances in materials and techniques in civil engineering", Sri Krishna College of Technology, Coimbatore, 9<sup>th</sup>-11<sup>th</sup> of Jan 2014.
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- **Velraj Kumar.G.**, Ramakrishnan.S., Arun.M and Ranjith.S `` Characteristic Study on Mechanical Behaviour of Cement-Rice husk ash Concrete for Pavement” Proceedings of the International Conference on “Futuristic Innovations & Development in Civil Engineering”, Mepco Schlenk Engineering College, Sivakasi, 18<sup>th</sup>-20<sup>th</sup> of April 2013.
- Ranjith.S, **Velraj Kumar.G** and Ramakrishnan.S,“ Rice husk ash blended cement: Assessment of optimal level of replacement for strength and workability of concrete for pavement” Proceedings of the “International Conference on Innovative Materials and Construction”, Adhiparasakthi Engineering College, Melmaruvathur, 08<sup>th</sup>-09<sup>th</sup> of April 2013.
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