

## Profile

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### Academic Background

B.E. Bharathiar University, Coimbatore. 2001

M.E. Anna University, Chennai. 2004

Ph.D. Anna University, Chennai. 2016

### Work Experience

|                     |   |                      |
|---------------------|---|----------------------|
| Design Engineer     | Coimbatore Consultancy, Coimbatore.                     | July 2001-July 2002  |
| Lecturer            | Maharaja Engineering College, Avinashi.                 | July 2004-July 2009  |
| Assistant Professor | Sri Ramakrishna Institute of Technology,<br>Coimbatore. | July 2009-April 2017 |
| Associate Professor | Vellore Institute of Technology, Vellore                | May 2017-Til date    |

### Research Highlights

Publications – **30 refereed journal papers**, more than **35 papers in national and international conferences and 1 book chapter**.

Guided **20 M Tech Theses**; currently guiding **4 PhD scholars**

Applied two project proposal on DST sponsored projects (Under review)

Applied **Patent** on the topic - Sustainable High Performance Concrete using Manufactured Sand (Under Review)

Co-Investigator for the 2 Consultancy Projects

**Attended:** Faculty Development Programme -15, Workshop -25 Seminar – 10, Conference –15

**Organized:** Seminar – 5 , Conference - 4

## Recent Research Publication

**T. Shanmuga Priya**, Ashna Mehra, Samyak Jain, Kunal Kakria (2021), Effect of graphene oxide on high-strength concrete induced with rice husk ash: Mechanical and Durability performance, **Innovative Infrastructure Solutions** , 6:5, 1-16.

**T . Shanmuga Priya** and R. Senthilkumar(2020), Flexural behaviour of reinforced concrete beams with silica fume and processed quarry fines, **Advances in Concrete Construction**, Vol. 10, No. 2, 161-169

Kunal Kakria , S. Thirumalini, Michele Secco, **T Shanmuga Priya** (2020), A novel approach for the development of sustainable hybridized geopolymer mortar from waste printed circuit boards, **Resources, Conservation & Recycling**, 163, 105066

G. Velvizhi S. Shanthakumar , Bhaskar Das , A. Pugazhendhi , **T. Shanmuga Priya** , B. Ashok K. Nanthagopal, R. Vignesh, C. Karthick (2020), Biodegradable and non-biodegradable fraction of municipal solid waste for multifaceted applications through a closed loop integrated refinery platform: Paving a path towards circular economy, **Science of the Total Environment** , 731 138049.

**Shanmuga Priya T.**, N. Ramesh, Ankit Agarwal, Shreya Bhusnur and Kamal Chaudhary, (2019), “Strength and durability characteristics of concrete made by micronized biomass silica and Bacteria-Bacillus sphaericus, **Construction and Building Materials**, 226, 827–838.

**Shanmugapriya T** and Thirumalini S 2018, “Evaluation of strength and durability of natural fibre Reinforced high strength concrete with M-Sand”, **Romanian Journal of Materials** 2018, 48 (4), 483 – 490

**Shanmugapriya T**, R.N. Uma and K. Murali (2018), “Multivariate adaptive regression splines model to predict strength characteristics of high performance concrete”, **Journal of Structural Engineering** Vol. 45, No. 3, pp. 1-10.

**ShanmugaPriya T** and Punitha Kumar A. (2017), “Study on crushed sand as an alternative for natural sand in High Performance Concrete”, *International Journal of Civil Engineering and Technology*, 8(12), pp. 332-338.

Amitha P and **Shanmuga Priya T.** (2017), Waste Management Process for Non-Value Adding Activities using lean construction, *Imperial Journal of Interdisciplinary Research* Vol-3, Issue-3, 2017, 853-856

**Shanmugapriya T.**, S. Yamini Roja, R. Resmi and Uma RN (2016), “Studies on flexural behaviour of High Performance RC beams with manufactured Sand and silica fume”, *International Journal of Civil Engineering and Technology*, Vol. 7, No. 6, pp.578- 586.

**Shanmugapriya T.**, Sathish Raja K. and Balaji C (2016), “Strength and durability properties of High Performance Concrete with Manufactured Sand”, *ARPJ Journal of Engineering and Applied Sciences*, Vol. 11, No. 9, pp.6036- 6045.

Ezhilmathi P., and **Shanmugapriya T** (2016), “Study on Material Management – An Art of Review” , *International Research Journal of Engineering and Technology*, Vol. 3, No. 11, pp. 640-645.

Amitha P and **Shanmugapriya T** (2016) Implementation of lean six sigma in Construction: a review, *International Journal of Science, Engineering and Technology Research*, Vol. 3, No. 11, pp. 757-760.

**Shanmugapriya T**, Uma RN 2015 & U.Gayathri (2015), “ Flexural Behavior of Reinforced High Performance Concrete Beams with Manufactured Sand and Silica fume”, *International Journal of Innovative Research in Engineering Management*, Vol. 3 No.1, pp. 121-126.

**Shanmugapriya T, Uma RN** (2015), “Strength and Durability Studies on High Performance Concrete With Manufactured Sand as Fine Aggregate”, International Journal of Applied Engineering Research, Vol. 10 No.2, pp. 1919-1924.

**Shanmugapriya T, Uma RN , Sathish Raja K, Kaveen S** (2015), “A Characteristic Study of High Performance Concrete with Silica Fume and M-Sand”, International Journal of Applied Engineering Research, Vol. 10, No. 2 pp. 4929-4938.