

RESUME

Preethy Mary. A

D/o D. Arulanandam

1609, 11th Main Road, Ram Nagar South, Madipakkam,
Chennai, Tamil Nadu - 600091

Phone: +91-8903431672, +91-7904173818

E-mail: preethimary1995@gmail.com

LinkedIn id: [linkedin.com/in/preethy-mary-08a4b6206](https://www.linkedin.com/in/preethy-mary-08a4b6206)

D.O.B.: 26/07/1995

Marital status: Married



Objective

A structural engineer graduate seeking an opportunity to work in a challenging and innovative environment that will encourage me to improve my knowledge in the structural engineering field and educate the students its concepts and applications. Within hand experience in several structural research field, I would like to explore the challenges and educate the students on practical aspects.

Education

Ph.D. (Structure Engineering) (Thesis submitted)

2018 - till date

- Pursuing Ph.D. from National Institute of Technology Puducherry (NITPY).
- Project topic is "Performance and Design of ECC-concrete Composite Beams"

Master of Technology (Structure Engineering)

2016 - 2018

- Completed Masters from Pondicherry Engineering College (PEC), Puducherry.
- Project topic is "Studies on Glass Fibre Reinforced Polymer Laminated (GFRP) Basalt Fibre Reinforced Concrete (BFRC) Beams"
- Aggregate percentage: 90.3%

Bachelor of Engineering (Civil Engineering)

2012 - 2016

- Completed this course from Pondicherry Engineering College (PEC), Puducherry.
- Project topic is "Determination of Stress-Strain Characteristics of Non-Conventional Masonry"
- Aggregate percentage: 86.6%

Higher Secondary (12th)

2011 - 2012

- Studied at Nirmala Ranee Girls Higher Secondary School, Karaikal.
- Aggregate percentage: 89.5%

Senior Secondary (10th)

2009 – 2010

- Studied at Nirmala Ranee Girls Higher Secondary School, Karaikal.
- Aggregate percentage: 92.2%

Publications

- Arulanandam, P. M., Kanakubo, T., Singh, S. B., and Sivasubramanian, M.V. R, “Effect of ECC Layer Thickness and Reinforcement Ratio on the Load Carrying Capacity of Steel Reinforced Composite Beams”, 2023, Structural Concrete. <https://doi.org/10.1002/suco.202200752> [SCIE, SCOPUS]
- Arulanandam, P.M.; Sivasubramnaian, M.V.; Chellapandian, M.; Murali, G.; Vatin, N.I. Analytical and Numerical Investigation of the Behavior of Engineered Cementitious Composite Members under Shear Loads. Materials 2022, 15, 4640. <https://doi.org/10.3390/ma15134640> [SCIE, SCOPUS indexed]
- Arulanandam, P. M., Singh, S. B., and Sivasubramanian, M. V. R., “Numerical analysis of reinforced ECC portal frames”, The Indian Concrete Journal, 2020, 94, 10, 44-54. [SCOPUS]
- Arulanandam, P. M., Singh, S. B., Kanakubo, T., and Sivasubramanian, V. R. “Behavior of Engineered Cementitious Composite Structural Elements – A Review.” The Indian Concrete Journal, 2020, 94, 6, 05-28. [SCOPUS] **[Best paper award]**
- Preethy Mary, A., Eswari, S. “Performance of RC beams with Externally Bonded FRP Laminate”, Jour. of Adv. Research in Dynamical & Control Systems, 2018, 10, 05, 1719-1725. [SCOPUS]
- Preethy Mary, A., Eswari, S. “Experimental and Finite Element investigation on the Structural Behaviour of GFRP Laminated BFRC Beams”. Structures. **[Under Review]**
- Arulanandam, P. M., and Sivasubramanian, M.V. R, “An RSM-Based Multi-Response Optimization Application for Determining the Flexural Performance of Steel Reinforced ECC - Concrete Composite Beams”. **[Under preparation]**
- Arulanandam, P. M., and Sivasubramanian, M.V. R, “Material Properties evaluation of ECC using different Techniques”. **[Under preparation]**
- Arulanandam, P. M., and Sivasubramanian, M.V. R, “Design Approach for the Effect of ECC Layer Thickness on Moment Capacities of ECC-concrete Composite Beams”. **[Under preparation]**

Conference

- Madappa V.R. Sivasubramanian, M. V. R., Arulanandam, P. M., Singh, S. B., A Comparative Study of Constitutive Models for The Prediction of Flexural Response of Reinforced ECC Beams”, CONMAT 2020. **[Accepted]**
- Preethy Mary, A., Eswari, S. “Behaviour of GFRP Laminated RC Beams using Finite Element Analysis”, International Conference on Sustainable Technologies in Building & Environment-2018. **[Best paper award]**
- Preethy Mary, A., Eswari, S. “Strength Evaluation of GFRP Laminated RC Beams using ANSYS”, International Conference on Breakthrough in Engineering, Science & Technology-2018. **[Accepted]**

Book Chapter

- Arulanandam, P. M., Sivasubramanian, M.V. R., and Singh, S. B. (2020), “Effect of Layer Thickness and FRP Reinforcement Ratio on The Load Carrying Capacity of ECC Composite Beams”, US2020 Partnership Workshop FRP Materials and Sustainable Structures, March 4, 2022. **[Accepted]**

Awards

- Received **Best Paper Award** for the paper titled “Behavior of Engineered Cementitious Composite Structural Elements – A Review” by the Indian Concrete Journal (ICJ).
- Received **Best Paper Award** at International Conference on Sustainable Technologies in Building & Environment for the paper titled “Behaviour of GFRP Laminated RC Beams using Finite Element Analysis” held at Sathiyabama Institute of Science and Technology, Chennai.
- Awarded **third prize** for presenting a paper “Earthquake Resisting Structures” in SRISHTI’15, a national level technical symposium organised by Department of Civil Engineering, EGS Pillai College, Karaikal.

Patents

- Application No.202321032594 A titled “Real-Time Monitoring and Predictive Analysis Device for Early Warning of Construction Issues and Structural Failure”, Date of publication: 23/06/2023.

Software known

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| • ABAQUS | • ANSYS | • Autocad |
| • Staad Pro. | • Etabs | • MATLAB |
| • MS office | | |

Area of Interest

- Structural Analysis
- Engineered Cementitious Composites (ECC)
- Finite Element Analysis
- Concrete Technology

References

1. Dr. Madappa V. R. Sivasubramanian

Associate Professor

Department of Civil Engineering

National Institute of Technology Puducherry

Ph: +91- 9790677649

E-mail: madappa@nitpy.ac.in, s.madappa@gmail.com

2. Dr. S. Eswari

Associate Professor

Department of Civil Engineering

Puducherry Technological University

Ph: +91- 9443560804

E-mail: eswaripecc@pec.edu

Declaration

I, hereby declare that all the above-furnished information is correct to the best of my knowledge and belief.

Place: Chennai

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