

**PRIYADHARSHINI.S**

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## CAREER OBJECTIVE

To work in a globally competitive environment on challenging assignments that shall yield the twin benefits of job satisfaction and a steady paced professional growth.

## ACADEMIC PROFILE

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|--------------------|--|
| <b>2017 - 2019</b> | ➤ <b>M.Tech - Structural Engineering</b><br>Pondicherry Engineering College,<br>Puducherry.<br>C.G.P.A - 9.3 |
| <b>2013- 2017</b>  | ➤ <b>B. Tech - Civil Engineering</b><br>Pondicherry Engineering College,<br>Puducherry.<br>C.G.P.A - 8.5     |
| <b>2011-2013</b>   | ➤ <b>H.S.C</b><br>St. Patrick Higher Secondary School,<br>Puducherry.<br>Mark Obtained - 91%                 |
| <b>2010-2011</b>   | ➤ <b>Matriculation</b><br>St. Patrick Higher Secondary School,<br>Puducherry.<br>Mark Obtained - 93.4%       |

## WORK EXPERIENCE

1. Working as Project Associate with Prof. Radhakrishna G. Pillai, at Indian Institute of Technology, Madras, from September 27<sup>th</sup> 2019 till present.

### *Projects handling:*

1. Structural behavior of corroding prestressed concrete (PSC) systems and extension of service life using cathodic protection.
2. Railway sleeper industry - 3W bond project, Lubricants on the 3-wire strand surface and its effect on the bond strength.
3. Effect of corrosion on bond strength of prestressing strand.
4. Effect of corrosion on the transmission length of the prestressed concrete beams.
5. Performance evaluation of concrete penetrating corrosion inhibitor caplets (Power throw).

6. Strength Assessment of cored concrete cylinder and brick samples extracted from manholes collected from Karaikudi.

## AREAS OF INTEREST

- Design of RCC & Steel structures
- Design of PEB structures
- Stability of structures
- Prestressed concrete structures

## TECHNICAL SKILLS

- AutoCAD
- STAAD.Pro
- ANSYS
- MATLAB
- C Programming
- Microsoft

## PROJECTS & THESIS

### M. Tech

#### **Phase I - Pondicherry Engineering College.**

- Study on Flexural behavior of RC Beams using surface coated recycled coarse aggregate.

#### **Phase II - CSIR-Structural Engineering Research Centre.**

- Studies on crack characteristics evaluation in concrete structures using high dynamic range image processing.

### B. Tech

- Evaluation of bond strength between steel reinforcing bars and recycled coarse aggregate concrete.

## ACHIEVEMENTS

- 2019** ➤ Placed as University rank – 3<sup>rd</sup>, in M. tech – Structural Engineering, for the year 2017 – 2019, in the university level examinations conducted by Pondicherry Engineering College, Puducherry.
- 2018** ➤ Got an opportunity to carry out M. tech project work at CSIR – Structural Engineering Research Center (SERC) from November 2018 to April 2019.
- 2016** ➤ Won ‘College Merit certificate’ for the year wise Academic topper award in B. Tech – Civil Engineering of the year 2015-2016 held during ‘College Day’ at Pondicherry Engineering College.
- Secured First place in Elocution competition on the topic “Engineering Challenges for Knowledge Era”, conducted during Engineer’s Day at Pondicherry Engineering College.
- Won the second prize in Essay writing competition on the topic “Public spaces for all”, conducted during ‘World Water Day’ at Pondicherry Engineering College.

## IN-PLANT TRAINING

- 2018** ➤ Underwent fifteen days of Technical Training at Lavinsree Engineering Design Consultants, Puducherry.
- 2016** ➤ Underwent two weeks of in- plant training at INTACH, Puducherry.
- 2015** ➤ Underwent five days of in- plant Training at PWD, Puducherry.

## INDUSTRIAL EXPOSURE

- Visited Tower Testing Research Station at Chennai, on 20<sup>th</sup> February, 2019.
- Visited Structural Engineering Research Centre (SERC), on 26th September, 2016.
- Visited Water and Sewage treatment plant at Chennai, on 14th October, 2015.
- Visited Ramco Cement at Alathiyur, on 26th December, 2014.

## PAPER PUBLICATIONS

- “Improved image processing technique for detection of cracks in concrete structures using HSV colour space”, Priyadharshini. S, Sivasubramanian. K, Ramakrishna. G, ‘KSCE Journal of Civil Engineering’, Impact Factor – 1.428 (Under review).

## CONFERENCE

- 2019** ➤ Presented a paper on the title “Improved Image processing techniques for detection of cracks in concrete structures using HSV colour space”, at International conference on Global Environmental Changes and Sustainable Development- (ICGECSD), organized by the Department of Civil Engineering, Vel-Tech Institute of Science and Technology, Chennai.

## OTHER COURSES

- 2019** ➤ Done certified course on Practical approach to the Design of Pre-Engineered Buildings offered by Emmarde Institute, for a period of three months (June to August).
- 2018** ➤ Completed NPTEL course with an ‘Elite Certification’ in the subject ‘Principles of Construction Management’ offered by IIT Kharagpur.

## REFERENCES

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|--|---|
| 1. Dr. K. Sivasubramanian,<br>Principal Scientist,<br>CSIR-SERC,<br>Chennai.<br>Contact: 9444214795. | 2. Dr. S. Kothandaraman,<br>Principal,<br>Pondicherry Engineering College,<br>Puducherry.<br>Contact: 9443468876. |
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## DECLARATION

I hereby declare that the above-mentioned information provided is correct to the best of my knowledge and belief.