

## Dr. E. ArunRaj's Profile



**Dr. E. ArunRaj** M.Tech., Ph.D.,  
Assistant Professor

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### Academic Background

| Degree  | Specialization         | University                                   | Year |
|---------|------------------------|--|------|
| Ph.D    | Civil Engineering      | Karunya Institute of Technology and Sciences | 2021 |
| M.Tech. | Structural Engineering | Karunya Institute of Technology and Sciences | 2014 |
| B E.    | Civil Engineering      | Anna University, Tirunelveli                 | 2011 |

### Research Interests

- Resilient design of structure for Seismic response reduction
- Vulnerability Studies for Risk reduction of structures
- Retrofit of concrete beam-column joints

- Low cost cooling roof tiles
- Phase Changing Materials

#### Experience Record

- Assistant Professor, Department of Civil Engineering, Karunya Institute of Technology and Sciences, July 2014 till date
- Lecturer, A.S.L. Pauls Engineering College, Coimbatore, July 2011 to June 2012

#### Research Profiles

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##### Google Scholar Profile

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<https://scholar.google.com/citations?user=SJGOe04AAAAJ&hl=en>

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##### Scopus Profile

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<https://www.scopus.com/authid/detail.uri?authorId=57196950264>

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##### LinkedIn Profile

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<https://www.linkedin.com/in/arunraj-e-4221501b2/>

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#### Patents

- GI nettings for partial restrained RCC beam column joint No. 202041037408, dated 31/08/2020

#### Research Guidance

| Research guidance as supervisor | Completed | Ongoing |
|---------------------------------|-----------|---------|
| Doctor of Philosophy            | Nil       | Nil     |
| M Tech                          | 8         | 0       |

#### Summary of Publications

| <b>International<br/>/National Journal<br/>Publication</b> | <b>International<br/>/National<br/>Conference<br/>Publication</b> | <b>Scopus<br/>Citations</b> | <b>Google<br/>Scholar<br/>Citations</b> | <b>h-<br/>index</b> |
|--|---|-----------------------------|---|---------------------|
| 18   | 6   | 6                           | 12                                      | 2                   |

#### Courses Taught

- Engineering Mechanics
- Strength of Materials
- Structural Analysis-1
- Structural Analysis-2
- Computer Aided Drawing Lab
- Computer Application Lab
- Surveying
- Survey Lab
- Quantity Surveying and Estimation
- Foundation Engineering

#### Memberships in Professional Bodies

- International Association of Engineers (IAENG)
- Life Member of Institute of Research Engineers and Doctors (IRED)

#### Most Recent Publications

- Ebanesar, A., Gladston, H., Noroozinejad Farsangi, E., & Sharma, S. V. (2021). Strengthening of RC beam-column joints using steel plate with shear connectors: Experimental investigation. Structures. doi:10.1016/j.istruc.2021.08.042
- Enhancing the Structural Performance of RC Beam-Column Joints Using a Novel Optimized Stochastic Lattice Structure Ebanesar, A., Gladston, H., Noroozinejad Farsangi, E., Amudhini Stephen, E. Practice Periodical on Structural Design and Construction, 2021, 26(4), 04021033.
- Analytical approach to estimate equivalent strut width for wire meshed masonry infilled rc frame under dynamic loading, Jebadurai, S.V.S., Tensing, D., Daniel, C.,

Arunraj, E., Hemalatha, G. Civil Engineering and Architecture, 2021, 9(4), pp. 1198–1205.

- A Novel Lightweight Phase-changing Cooling Roof Tile. (2021). International Journal of Engineering, 34(6). doi:10.5829/ije.2021.34.06c.0.
- A REVIEW ON COOLING ROOF TILE MATERIALS. (2020). Journal of Critical Reviews, 7(13). doi:10.31838/jcr.07.13.08.

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