

## Dr. N. Anand's Profile



**Dr. N. Anand** M.E, Ph.D.,  
Associate Professor

nanand@karunya.edu

### Academic Background

Degree	Specialization	University	Year
Ph.D	Civil Engineering	Karunya University	2014
M.E.	Structural Engineering	Anna University	2005
B E.	Civil Engineering	Bharatiyar University	2003

### Research Interests

- Fire Resistance of Concrete/Steel/Composite Elements
- Failure Analysis and Structural Health Monitoring of Structures using Soft Computing Techniques
- Design and Development of Sustainable Concrete

- Non-destructive Testing and Evaluation

#### Experience Record

- Associate Professor, Department of Civil Engineering, Karunya Institute of Technology and Sciences, Coimbatore (2017 to till date)
- Assistant Professor, Department of Civil Engineering, Karunya Institute of Technology and Sciences, Coimbatore. (2010 - 2017)
- Senior Design Engineer, Mott Mac Donald, Buildings and Factories, Chennai
- Assistant Engineering Manager, Design Automation (EDRC), Larsen and Toubro (EDRC), Chennai

#### Research Profiles

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##### **ORCID**

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<https://orcid.org/0000-0001-7643-9747>

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##### **Scopus Profile**

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<https://www.scopus.com/authid/detail.uri?authorId=55383361600>

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##### **Researcher ID**

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<https://publons.com/researcher/3920490/anand-n/>

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#### Research Projects

- Development of Capacity based Standards for Concrete Materials under Elevated Temperature, DST- SERB, Rs 20.28 Lakhs, 2016-2019
- Rejuvenation of Water Bodies and Rain Water Harvesting Systems in Coimbatore City, Jawaharlal Nehru National Urban Renovation (AFPRO), 4.5 Lakhs, 2006-2007
- Studies on Behaviour of Normal and Self-compacting Concrete under Elevated Temperatures, Tamilnadu State Council for Science and Technology, TNSCST, 2015

#### Awards

- Young Scientist (DST, SERB, 2016)

- Young Engineer (Institution of Engineers, 2017)
- Viswakarma Award (Construction Industry Development Council, NITI Aayog, 2018)

#### Research Guidance

<b>Research guidance as supervisor</b>	<b>Completed</b>	<b>Ongoing</b>
Doctor of Philosophy	2	8
M Tech	45	2

#### Summary of Publications

<b>International /National Journal Publication</b>	<b>International /National Conference Publication</b>	<b>Scopus Citations</b>	<b>Google Scholar Citations</b>	<b>h- index</b>
36	55	120	924	6

#### Courses Taught

- Design of Steel Structures
- Design of Prestressed Concrete Structures
- Design of Precast Concrete Structures
- Computer Aided Structural Design
- Seismic Analysis and Design

#### Memberships in Professional Bodies

- Indian Concrete Institute
- Institution of Engineers
- Registered Valuers Organisation (L&B)

#### Most Recent Publications

- Mathews, M. E., Anand, N., Kodur, V. K., & Arulraj, G. P. (2021). Investigation on Bond strength of Self-Compacting Concrete Exposed to Elevated Temperature. Proceedings of the Institution of Civil Engineers-Structures and Buildings, 1-38. (Institution of Civil Engineers, UK).

- Andrushia A, Anand.N., & Lubloy, E. (2021). Deep Learning based Thermal Crack Detection on Structural Concrete Exposed to Elevated Temperature. *Advances in Structural Engineering*, 1369433220986637.(Sage Publication).
- Kiran, T., Anand, N., Nitish Kumar, S., Andrushia, D., Singh, S. K., & Arulraj, P. (2020). Influence of nano-cementitious materials on improving the corrosion resistance and microstructure characteristics of concrete. *Journal of Adhesion Science and Technology*, 1-28. (Taylor and Francis).
- Thanaraj, D. P., Anand, N. G. P. A., Prince Arulraj, G., & Zalok, E. (2020). Post-fire damage assessment and capacity based modeling of concrete exposed to elevated temperature. *International Journal of Damage Mechanics*, 29(5), 748-779. .(Sage Publication).
- Thanaraj, D. P., Anand, N., Arulraj, P., & Al-Jabri, K. (2020). Investigation on structural and thermal performance of reinforced concrete beams exposed to standard fire. *Journal of Building Engineering*, 32, 101764. (Elsevier publication).
- Andrushia, D. A., Anand, N., & Arulraj, P. G. (2020). A novel approach for thermal crack detection and quantification in structural concrete using ripplelet transform. *STRUCTURAL CONTROL & HEALTH MONITORING*, 27(11). (Wiley online library).

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