

Dr. N. Anand's Profile

Dr. N. Anand, M.E, Ph.D.

Associate Professor

nanand@karunya.edu

Academic Background

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, Karunya Institute of Technology and Sciences, Coimbatore (2017 to present)

Assistant Professor, Karunya Institute of Technology and Sciences, Coimbatore (2010-2017)

Senior Design Engineer, Mott Mac Donald, Chennai

Assistant Engineering Manager, L&T EDRC, Chennai

Research Profiles

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

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

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

Research Projects

* DST- SERB: Development of Capacity based Standards for Concrete under Elevated Temperature (Rs 20.28 Lakhs, 2016-2019)

* JNNURM (AFPRO): Rejuvenation of Water Bodies and Rain Water Harvesting in Coimbatore (Rs 4.5 Lakhs, 2006-2007)

* TNSCST: Studies on Normal and Self-compacting Concrete under Elevated Temperatures, 2015

Awards

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Young Scientist (DST, SERB, 2016)

Young Engineer (Institution of Engineers, 2017)

Viswakarma Award (CIDC, NITI Aayog, 2018)

Research Guidance

Doctor of Philosophy - Completed: 2, Ongoing: 8

M Tech - Completed: 45, Ongoing: 2

Summary of Publications

Journal Publications: 36

Conference Publications: 55

Scopus Citations: 120

Google Scholar Citations: 924

h-index: 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., et al. (2021). Bond strength of Self-Compacting Concrete Exposed to Elevated Temperature. ICE-Structures and Buildings.

* Andrushia A, Anand.N., & Lubloy, E. (2021). Deep Learning based Thermal Crack Detection. Advances in Structural Engineering.

* Kiran, T., Anand, N., et al. (2020). Nano-cementitious materials for corrosion resistance. Journal of Adhesion Science and Technology.

* Thanaraj, D. P., Anand, N., et al. (2020). Post-fire damage and capacity modelling. International Journal of

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Damage Mechanics.

* Thanaraj, D. P., Anand, N., et al. (2020). Structural and thermal performance of RC beams. Journal of Building Engineering.

* Andrushia, D. A., Anand, N., & Arulraj, P. G. (2020). Thermal crack detection using ripplelet transform. Structural Control & Health Monitoring.