

## **Faculty Profile**

(Information for last five years from 2020-21 to 2024-25)

1. Name of the faculty : Dr. NAGARAJ V K
2. Name of the Department : Civil Engineering
3. Present position : Associate Professor
4. Educational qualifications : M. Tech, Ph.D

Degrees	Class/ Grade	University/ Institution	Stream Regular/ Distance	Year of award
Ph.D.		VTU	Civil Engineering	2019
PG Degree	FCD	VTU	Structural Engineering	2015
UG Degree	FCD	VTU	Civil Engineering	2013

5. E-mail and contact number : naga.cv@drait.edu.in
6. Date of Joining the Institute : 26/08/2024
7. Total teaching experience : 06 years

Year		Designation	AICTE Approved Institutions	Academic-Administrative Responsibility held
From	To			
August, 2019	March, 2021	Assistant Professor	Nagarjuna College of Engineering & Technology	<ul style="list-style-type: none"> <li>- NBA Criteria - 2 Coordinator.</li> <li>- NAAC Criteria - 1 Coordinator.</li> <li>- BOS Member.</li> <li>- Project Coordinator.</li> </ul>
April, 2021	May, 2024	Associate Professor	Nagarjuna College of Engineering & Technology	<ul style="list-style-type: none"> <li>- IQAC Internal Audit Member.</li> <li>- Innovation Ambassador for Entrepreneurship Development - Institution's Innovation Council.</li> <li>- BOS Member.</li> <li>- Indian Concrete Institute Student Chapter Coordinator.</li> <li>- Project Coordinator.</li> <li>- Internship Coordinator.</li> <li>- NBA Criteria - 2 Coordinator.</li> <li>- NAAC Criteria - 1 Coordinator.</li> </ul>
May, 2024	June, 2024	Associate Professor and Head of the	Nagarjuna College of Engineering & Technology	Head of the Department.



**12. Minor research projects completed:**

<b>Academic Year</b>	<b>Minor Project Title</b>	<b>Date of Sanction</b>	<b>Funding agency</b>	<b>Duration</b>	<b>Sanctioned Amount</b>	<b>Grant Received</b>	<b>PI or Co-PI</b>
2024-25	Hydrophobicity Enhancement of Alkali Aluminosilicate Polymer with Beewax and Molasses as Natural Waterproofing Agents.	14, March 2025	Karnataka State Council for Science and Technology	06 months	Rs. 3,500/-	Rs. 3,500/-	Guide
2023-24	Alkali Activated Concrete for In-situ Construction	Dec, 2023	Nagarjuna College of Engg & Tech. in collaboration with GEOMARDY (India).	06 months	Rs. 26,800/-	Rs. 26,800/-	PI
	Corrosion Evaluation of Steel Reinforcement Embedded in Alkali Activated Composite Subjected to Aggressive Environment.	19, April 2024	Karnataka State Council for Science and Technology	06 months	Rs. 3,000/-	Rs. 3,000/-	Guide
2022-23	Hydrophobicity Improvement of Alkali Activated Composite with Saccharum Officinarum and Aegle Marmelos as Natural Water Proofing Agent.	24, April 2023	Karnataka State Council for Science and Technology	06 months	Rs. 3,000/-	Rs. 3,000/-	Guide
	Performance Evaluation of Corrosion Inhibitor on Properties of Steel Reinforcement Embedded in	24, April 2023	Karnataka State Council for Science and Technology	06 months	Rs. 3,000/-	Rs. 3,000/-	Guide

	Concrete Subjected to Aggressive Environment.						
2021-22	Inhibiting Behavior of Vitis Vinifera Marc and Aloe Barbadensis Miller on Steel Reinforcement Embedded in Aluminosilicate Composite.	11, May 2022	Karnataka State Council for Science and Technology	06 months	Rs. 3,000/-	Rs. 3,000/-	Guide
2020-21	Utilization of Waste Paper as Coarse Aggregate in Alkali Activated Concrete.	24, April 2021	Karnataka State Council for Science and Technology	06 months	Rs. 4,000/-	Rs. 4,000/-	Guide
	Experimental Investigation on Influence of Nanomaterials on Properties of Cement Composites.	24, April 2021	Karnataka State Council for Science and Technology	06 months	Rs. 4,000/-	Rs. 4,000/-	Guide

### 13. Guidance / Supervision

i) Number of students successfully awarded Ph.D. degree:

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Date of Declaration of PhD
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ii) Number of students registered for Ph.D. degree:

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Status
---nil---						

iii) Number of students awarded M.Tech by Research:

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Status
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14. Participation in conferences, symposia, seminars and workshops: International, national, state or university level, attended. Presented paper, chaired session. Resource person.

<b>International Conference</b>			
<b>Academic Year</b>	<b>Title of the Conference</b>	<b>Venue and Date of Conference</b>	<b>Attended/Presented paper/ Chaired Session/ Resource Person</b>
2020-21	International Conference on Materials Science and Manufacturing Technology.	09-10, April 2020. Coimbatore, Tamil Nadu, India.	Presented paper
2021-22	International Conference on Civil Engineering Trends and Challenges for Sustainability	19-20, November 2021. NMAM Institute of Technology, Karnataka, India.	Presented paper
2022-23	International Conference on Civil Engineering Trends and Challenges for Sustainability	April 2023. NMAM Institute of Technology, Karnataka, India.	Presented paper
	International Conference on Civil Engineering Trends and Challenges for Sustainability	06-07, December 2023. NMAM Institute of Technology, Nitte, India.	Presented paper
	International Conference on Structural Engineering and Construction Management	04-06, June 2025 Federal Institute of Science and Technology, Angamaly, Kerala, India.	Presented paper
	International Conference on Innovations in Clean Energy Technologies	21-22, Feb 2025. Maulana Azad National Institute of Technology, Bhopal, India.	Presented paper
<b>National Conference</b>			
<b>Academic Year</b>	<b>Title of the Conference</b>	<b>Venue and Date of Conference</b>	<b>Attended/Presented paper/ Chaired Session/ Resource Person</b>
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Symposia/ Seminars/ Workshops						
Sl. No.	Academic Year	Title	Symposia/ Seminars/ Workshops	Venue and Date	International/ National/ State/ University Level	Attended/ Presented
1.	2024-25	Green Energy Materials Meet, 2024.	Symposia	23-24, September 2024 Bengaluru, India	International	Presented

**15. Innovative processes developed in teaching and learning:**

Sl. No.	Academic year	Odd/Even Sem	Course	Short description of the Activity	Remarks
1.	2024-25	Odd	Artificial Intelligence and Applications in Civil Engineering	Project Based Learning was followed on Applications of AI in Construction Sector.	Students participated in PBL, documented the observations and submitted a report.
		Even	Introduction to Technical Paper Writing	Students were exposed to journal papers, which served as a benchmark for their major project in the upcoming semester.	Students were given a set of journals and asked to analyze them by identifying the novelty, study design, commenting on data reporting in figures and tables and summarizing the final outcomes.
2.	2023-24	Odd	Building Materials and Concrete Technology  Design of Masonry Structures	Hands-on training on “Blockwork and Plastering Work”	Tranning was conducted in association with Indian Concrete Institute (ICI) and Stambha Infrastructure Pvt. Ltd

		Even	Analysis and Design of Tall Structures	Comparison of manual design with software-based design.	Modern Tool usage was practiced in the respective course.
3.	2022-23	Odd	Advanced Concrete Technology	Technical Talk on Critical Overview of Concrete Technology – I  Technical Talk on Critical Overview of Concrete Technology – II	Talk was organized in association with Indian Concrete Institute (ICI)
		Even	Repair and Rehabilitation of Concrete Structures	Classroom hands-on training on NDT equipment's	Modern Tool usage was practiced in the respective course
4.	2021-22	Odd	Advanced Concrete Technology	Industrial visit to Aparna RMC Plant	A visit to an RMC plant helps students understand the practical aspects of concrete production, quality control and mix design in real-world applications.
5.	2020-21	Odd	Basic Material Testing Lab	Virtual Labs by NITK, Surathkal	Due to pandemic BMT lab experiments were explained through Virtual Labs.
		Even	Remedial Engineering	Online live demonstration on NDT equipment's.	Due to pandemic online live demonstration was performed in association

					with Samyuktha Enterprises (NDT equipment's supplier).
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**16. Participation in curricular development:**

Sl.no	Academic year	Odd/Even Sem	Course	Short Description of the Course Content
1.	2023-24	Odd and Even semesters	Program of study (UG and PG – Structural Engineering & Construction Technology)	UG and PG courses - BOS internal member
2.	2022-23	Odd and Even semesters	Program of study (UG and PG – Structural Engineering & Construction Technology)	UG and PG courses - BOS internal member
3.	2021-22	Odd and Even semesters	Program of study (UG and PG – Structural Engineering & Construction Technology)	UG and PG courses - BOS internal member
4.	2020-21	Odd and Even semesters	Program of study (UG and PG – Structural Engineering & Construction Technology)	UG and PG courses - BOS internal member

**17. Participation in co-curricular and extra-curricular activities:**

Sl.no	Academic year	Odd/Even Sem	Type of the activity (Co-curricular/ Extra Curricular)	Short Description of the Activity
1.	2024-25	Even	Extra-curricular activity	Coordinator – 9 <sup>th</sup> National Techno-Exhibition, Dr. AIT
2.	2022-23	Odd	Co-curricular activity	Coordinated Master training for District Nirmithi Kendra Engineers, organized by Government of Karnataka – Bharat Ratna Sir M. Visvesvaraya National Training Facility for Skills for All
		Even	Co-curricular activity	Coordinated Employability Enhancement Training Programme for Civil Engineering



				Graduates (Residential), organized by Government of Karnataka – Bharat Ratna Sir M. Visvesvaraya National Training Facility for Skills for All
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18. Examination /Evaluation reforms initiated: ---

19. Publication of research papers:

Journal Publication						
Academic Year	Research Paper Title	Journal Name	Date of Publication/ Page Numbers	Impact Factor/h-index/ Number in SCOPUS	peer reviewed/ non-peer reviewed	National/ International
2022-23	A review on Aluminosilicate Composites	Journal of Engineering, Computing and Architecture	April 2022	Impact Factor: 6.1	peer reviewed	National
Conference Proceedings						
Academic Year	Research Paper Title	Conference Name	Venue	Date of Publication/ Page Numbers	Impact Factor/h-index/ Number in SCOPUS	National/ International
2022-23	Experimental study on the influence of polypropylene and steel fiber on flexural behaviours of high strength concrete beams	International Conference on Civil Engineering Trends and Challenges for Sustainability	NMAM Institute of Technology, Karnataka, India	2022 Page Numbers: 85–92	h-index: 112	International
2021-22	Statistical Analysis on the Influence of Recycled Concrete Aggregate on the Concrete	International Conference on Civil Engineering Trends and Challenges for Sustainability	NMAM Institute of Technology, Karnataka, India	2021 Page Numbers: 405-416	h-index: 28	International

	Properties					
2020-21	A Review on Durability Properties of Alkali Activated Composites	International Conference on Materials Science and Manufacturing Technology	Coimbatore, Tamil Nadu, India.	2020	h-index: 74	International

**20. Books published:**

Academic Year	Title	Date of Publication/Page Numbers	ISBN Number	Book/Book Chapter
2021-22	Statistical Analysis on the Influence of Recycled Concrete Aggregate on the Concrete Properties	Date of Publication: 27, June 2022 Page Numbers: 405-416	Print ISBN: 978-981-19-1861-2  Online ISBN 978-981-19-1862-9	Lecture notes in Civil Engineering - Recent Advances in Civil Engineering

**21. Patents Published/Granted:**

Academic Year	Patent Number & Date of filing	Title	National/ International	Published Date	Grant Date
2024-25	202441046686 A	Novel System and Method of Experimental Evaluation of Aluminosilicate Composites	National	05/07/2024	---
2023-24	202341038014 A	Novel System and Method of Removal of Nitrate and Fluoride from Drinking Water using Ocimum Basilic	National	29/09/2023	---
	202341038016 A	Novel System and Method of Treatment of Soaps and Detergent Industrial Waste Water by Biosynthesized	National	29/09/2023	---
	202341032270 A	IOT based Smart Waste Management System for Building Smart Cities Applications	National	18/08/2023	---

**22. Consultancy services provided and revenue generated:**

Academic Year	Title of the project	Name of the Principal Investigator	Date of sanction & Amount	Sponsoring Agency	Status	Remarks
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**23. Conferences, seminars, symposia and workshops organized/Attended:**

**i) Organised**

Academic Year	Title of the workshop/FDP /Conference	Name of the Coordinator/s	Date	Sponsoring Agency	No. of participants
2024-25	Technical Talk on "New Generation Concretes"	Dr. Nagaraj V K and Mrs. Vidyashree M G	15, May 2025	Dr. AIT	83
2023-24	Technical Talk on "Start-up and Entrepreneurship Opportunities in Civil Engineering & the Construction Industry"	Dr. Nagaraj V K and Mrs. Vidyashree M G	29, May 2024	NCET and Indian Concrete Institute (ICI)	37
	Hands-on training on "Blockwork and Plastering Work"	Dr. Nagaraj V K and Mrs. Vidyashree M G	14-21, August 2023	NCET, Indian Concrete Institute (ICI) and Stambha Infrastructure Pvt. Ltd.	48
	Hands-on training on "Basics of STAAD.Pro"	Dr. Nagaraj V K	20, July 2023	NCET and Indian Concrete Institute (ICI)	32
2022-23	Technical Talk on "Critical Overview of Concrete Technology - I"	Dr. Nagaraj V K	20, October 2022	NCET and Indian Concrete Institute (ICI)	36
	Technical Talk on "Critical Overview of Concrete"	Dr. Nagaraj V K	16, August 2022	NCET and Indian Concrete Institute (ICI)	37

	Technology - II"				
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ii) Attended - Conference/ seminars/ symposia/workshops

Sl. No	Academic Year	Title	Type (National/International- Workshop/FDP /Seminar)	Dates Attended (Duration)	Organized by Department/Coll ege/University
1.	2024-25	Green Energy Materials Meet. 2024.	International Symposium	23-24, September 2024 Bengaluru, India	Indian Ceramic Society, Karnataka and The American Ceramic Society Southwest India Chapter.
		Civil Engineering Trends and Challenges for Sustainability	International Conference	06-07, December 2023	NMAM Institute of Technology, Nitte, India
		Structural Engineering and Construction Management	International Conference	04-06, June 2025	Federal Institute of Science and Technology, Angamaly, Kerala, India
		Innovations in Clean Energy Technologies	International Conference	21-22, Feb 2025	Maulana Azad National Institute of Technology, Bhopal, India
2.	2022-23	Civil Engineering Trends and Challenges for Sustainability	International Conference	April 2023	NMAM Institute of Technology, Nitte, India
3.	2021-22	Civil Engineering Trends and Challenges for Sustainability	International Conference	19-20, November 2021	NMAM Institute of Technology, Nitte, India
4.	2020-21	Materials Science and Manufacturing Technology.	International Conference	09-10, April 2020	Coimbatore, Tamil Nadu, India.

24. Number of collaborations:

<b>S. No</b>	<b>Industry Partner Details</b>	<b>Name of the expert and designation</b>	<b>Nature of Collaboration (e.g., Guest Lecture, Internship, MoU, Consultancy, Joint Research, Curriculum Development)</b>	<b>Date/ Duration</b>	<b>Outcome/Impact</b>	<b>National/ International</b>
1	Government of Karnataka –  Bharat Ratna Sir M. Visvesvaraya National Training Facility for Skills for All (BMVNTFSA)	Dr. Nagaraj. V. K Asst. Prof., Nagarjuna College of Engineering & Technology	Guest Lecture	3 - 8, February 2020.	Master training in project management level - I for District Nirmithi Kendra Engineers	National
2	Government of Karnataka –  Bharat Ratna Sir M. Visvesvaraya National Training Facility for Skills for All (BMVNTFSA)	Dr. Nagaraj. V. K Asst. Prof., Nagarjuna College of Engineering & Technology	Guest Lecture	10 - 15, February 2020.	Master training in project management level - II for District Nirmithi Kendra Engineers	National
3	Government of Karnataka –  Centre for disaster Management, ATI, Mysore.	Dr. Nagaraj. V. K Assoc. Prof., Nagarjuna College of Engineering & Technology	Guest Lecture	2021	Special training lecture for Engineers and Government Officials o	National

4	Government of Karnataka –  Bharat Ratna Sir M. Visvesvaraya National Training Facility for Skills for All (BMVNTFSA)	Dr. Nagaraj. V. K Assoc. Prof., Nagarjuna College of Engineering & Technology	Guest Lecture	2022	Master training for District Nirmithi Kendra Engineers	National
5	Cashutec Nirmithi Kendra, Shakthinagar, Raichur Thermal Power Station (RTPS)	Dr. Nagaraj. V. K Assoc. Prof., Nagarjuna College of Engineering & Technology	Guest Lecture	06, June 2022	Student tanning for Diploma and Engineering (Civil).	National
6	Government of Karnataka –  Bharat Ratna Sir M. Visvesvaraya National Training Facility for Skills for All (BMVNTFSA)	Dr. Nagaraj. V. K Assoc. Prof., Nagarjuna College of Engineering & Technology	Guest Lecture	10, October 2022	Employability Enhancement Training Programme for Civil Engineering Graduates (Residential)	National

#### 25. Professional Membership:

Sl. No	Name of the professional body	Fellow/Life Member
1.	Indian Concrete Institute	Life Member
2.	Association of Consulting Civil Engineers (India)	Life Member

#### 26. MOOC / Online Courses developed / Delivered / Attended:

Academic Year	Course Registered for	Duration	No. of Weeks	Credits	% Obtained
2024-25	An Introduction to Urban Ecological Heritage: Theories and	Feb-Mar 2025	04 weeks	01	Elite Silver Medal (82%) and Topper

	Applications				
2023-24	Teaching and Learning in Engineering (TALE)	Jan-Feb 2024	04 weeks	01	Elite Silver Medal (87%) and Top 1% Topper
	Outcome Based Pedagogic Principles for Effective Teaching.	Feb-Mar 2024	04 weeks	01	Elite Silver Medal (87%) and Top 5% Topper
2022-23	Lean Construction (Module I – Learn Basics).	Jan – Feb 2023	04 weeks	01	Elite Gold Medal (94%)
	Accreditation and Outcome Based Learning.	Aug – Oct 2023	08 weeks	02	Elite Silver Medal (85%)

**27. Awards /recognitions received:**

Academic Year	Awards/Recognitions	Date and place	International/ National/ State/ University level
2020-21	Best Ph. D Thesis Award from Indian Concrete Institute, Bengaluru Centre and UltraTech for the year 2020-21.	25, February 2022. Bengaluru.	State level

**28. Details of Involvement in Academic and Administrative Committees:**

Responsibilities outside the institution: as External member (LIC, BOS, BOE, NBA, UGC, NAAC etc.)

Sl. No	Academic Year	Nature of Activity
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**29. Details of Outreach Activities**

Member in NSS, NCC, Reviewer for Journals, Conference Chair, Technical Committee Member, etc.

Sl. No	Academic Year	Nature of Activity
1	2024-25	Reviewer for Journals <ul style="list-style-type: none"> <li>- Scientific reports.</li> <li>- Iranian Journal of Science and Technology, Transactions of Civil Engineering.</li> <li>- Discover Concrete and Cement.</li> <li>- Journal of Building Pathology and Rehabilitation.</li> </ul>