

FACULTY PROFILE

Name of the Faculty:		Dr CH NAGA SATISH KUMAR				
Designation:		Professor				
Department:		Civil Engineering				
Date of Birth:		11-08-1976				
AICTE – ID:	1-1501088689					
Education	- Ph.D. in Civil Engineering awarded in May 2012 from NIT Warangal - M.Tech in Structural Engineering with First Class from NIT Warangal , 1998 – 2000. - B.E in Civil Engineering with First class with Distinction from Osmania University (Vasavi College of Engineering), Hyderabad, 1994-1998					
Experience	Teaching: 25 Years	Industry: -Nil	Total: 25 Years			
	Research: - 13 Y	Others: -				
Research Specialization		Fracture mechanics, Thermal insulation materials, Sustainable construction materials				
Courses taught:	Structural Analysis , Solid Mechanics, Advanced Structural Analysis, Engineering Mechanics, Computer Programming(C), Building Materials and Construction Stability of Structures, Theory of Elasticity and Plasticity, Finite Element Analysis, Pre stressed Concrete, Bridge Engineering, Concrete Technology, Matrix methods of structural Analysis, Python Programming.					
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volum e	pages	Indexing SCI/WoS/ SCOPUS, Google scholar)
1	Fracture Parameters of High Strength Concrete–Mode II Testing	Magazine of Concrete Research	2010	62	157-167	SCI
2	Size Effect in Torsional Failure of Normal Strength and High Strength Concrete Beams	Journal of Structural Engineering, SERC	2010	37	211-216	Scopus
3	Punching shear resistance of concrete slabs using Mode-II fracture energy	Engineering fractures mechanics	2012	83	75-85	SCI
4	Torsional Response of Plain Concrete Members Using	Indian Concrete Journal	2013	87(11)	45-52	Scopus

	Mode- II Fracture energy						
5	An Empirical Formula For Mode-II Fracture Energy of Concrete	KSCE Journal of Civil Engineering	2015	19	689-697	SCIE	
6	Effect of Fiber and aggregate size on Mode-I Fracture Parameters of HSC	Advances in Concrete Construction, An International Journal	2017	5	613-624	ESCI	
7	Ultra thin white topping concrete mix with sustainable concrete materials- a literature review	International journal of pavement engineering	2019	20	136-142	Scopus	
8	Durability Assessment of Concrete with Class-F Fly Ash by Chloride Ion Permeability	International Journal of Recent Technology and Engineering (IJRTE)	2019	8(4)	8831-8836	Scopus	
9	A Study On Concrete Mix With Quaternary Blended Sustainable Materials For Ultra -thin White Topping	Jordan Journal of Civil Engineering	2020	14(2)	161-170	ESCI	
10	Influence of fly ash on hydration compounds of high-volume fly ash concrete	AIMS Materials Science	2021	8(2)	301-320	Scopus	
11	Investigations on mechanical and thermal properties of concrete with different proportions of insulation aggregates	Structural Concrete	2021	22(S1)	720-731	Scopus	
12	Analytical Modeling of Ultra-thin white topping cement concrete overlay on bituminous concrete pavement using ANSYS	World Journal of Engineering	2021	20(4)	690-703	Scopus	
13	Binary and Ternary blended self compacting concrete proportioned based on the rheological properties-An experimental investigation	NeuroQuantology	2022	20(6)	9755-9766	Scopus	
14	Thermal analysis of concrete slabs with Insulating materials using ANSYS	World Journal of Engineering	2022	21(1)	156-169	Scopus	
15	A Review on Concrete's Rheological Properties	World Journal of Engineering	2022	21(1)	53-70	Scopus	
16	A case study on maintenance of bituminous concrete pavement considering life cycle cost analysis and carbon footprint estimation	International Journal of Construction Management	2022	22(9)	1756-1764	SCI	

17	MECHANICAL PROPERTIES OF HIGH STRENGTH SELF COMPACTING CONCRETE BASED ON RHEOLOGICAL MIX PROPORTIONING	Civil and Environmental Engineering	2023	19(1)	260-270	Scopus
18	Enhancing sustainability in concrete: synergistic effects of sugarcane bagasse ash and iron ore tailings as eco-friendly cement and sand replacements	Journal of Building Pathology and Rehabilitation	2023	9		Scopus
19	Effect of iron ore tailings as partial replacement to fine aggregate on the performance of concrete	Innovative Infrastructure Solutions	2024	9		Scopus

Books published: Nil

Book chapters Published : Nil

No of Patents (Filed & Granted) :- -Nil

Details of FDPs Organized

S.N o.	Name of the event	Role	Dates
1	ATAL-FDP The Role of Industry 4.0 in Civil Engineering for Future Construction	Coordinator	18-8-2025 to 23-8-2025

Details of Conferences (International Conferences)

S.No.	Name of the event	Organized by	Dates
1	SERC Chennai.,The sixth Structural engineering Convention	SERC Chennai	18-12-2008
2	NIT Surat.. The eight Structural engineering Convention	NIT Surat	19-12-2012
3	NIT Surat.. The eight Structural engineering Convention	NIT Surat	20-12-2012
4	IIUCNN,Mahatma Gandhi University,Kottayam,First world conference on fracture and dame mechanics	Mahatma Gandhi University,Kottayam	11-08-2014
5	ICISE-2015	Osmania University, Hyderabad	15-12-2015
6	Proceedings of the international Conference on smart sustainable cities	VR Siddartha Engineering College and APCRDA Vijayawada,	26-2-2016

7	International Conference on Advances in construction materials and structures(ACMS- 2018)	IIT-Roorkee	7-3-2018
8	10thInternational Conference on Fracture Mechanics of concrete and Concrete Structures (FraMCoS-X) , Bayonne,France.	FraMCoS-X	25-6-2019
9	International Conference on Innovation trends in Civil Engineering for Sustainable development	NIT-Warangal	14-9-2019
10	IOP CONFERENCE-ISTCE-2021	BAPATLA ENGINEERING COLLEGE ,	24-9-2021
11	The twelfth Structural engineering Convention	MNIT,Jaipur	21-12-2022
12	IPDIMS22	NIT ROURKELA	25-11-2022
13	CBKR2023 International conference	NIT Warangal	29-3-2023
14	ICMICI-2024	Vishnu Institute of Technology-Bhimavaram	2-2-2024
15	CONSEC24	IIT Madras Research Park	24-9-2024
16	ICCMS 2025	IIT Tirupati	5-07-2025

Details of project completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration
1	Fracture parameters of SFRC	AICTE-RPS	Completed	Rs 21.8Lakhs	2013-2016

Consultancy contribution

S.N o.	Year	Amount	Details
1			Material Testing Consultancy, Structural design consultancy

Student Project/research guidance

S.No	Level	Total number	
1	UG	Completed: 38	Ongoing: 1
2	PG	Completed: 30	Ongoing:-
3	PhD	Completed: 4	Ongoing: 2

Administrative experience

S.No.	Role	Duration (From – to)
1	Head of the Department	June 2010- July 2023
2	Dean Academics	July 2023- June 2026

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com.tw/citations?hl=en&user=MgSS9ScAAAAJ
SCOPUS	https://www.scopus.com/authid/detail.uri?authorId=36514996300
Web of Science	https://www.webofscience.com/wos/author/record/C-9667-2019
Vidwan ID	323898 (https://vidwan.inflibnet.ac.in/profile/323898)

Any other relevant information**Membership of Professional Bodies:**

1. Indian Society for Technical Education, (ISTE)
2. Engineering Council of India Professional Engineer (BRPE)
3. Convenor, Indian Plumbing Association, BEC Student chapter

Dr Ch.Naga Satish Kumar
(Name)