## **Faculty Profile**

1. Name of the faculty : Dr. Hemanth Kumar V

2. Name of the Department : Civil Engineering

3. Present position held : Assistant Professor

4. Educational qualifications : Ph.D. (Transportation Engineering), NITK

(Degree onwards)

Degrees	Class/ Grade	University/ Institution	Stream Regular/ Distance	Year of award
UG Degree	First Class / 63.34%	RV College of Engineering (VTU)	Civil Engineering – Regular	2010
PG Degree	First Class with Distinction / 79%	Dayananda Sagar College of Engineering (VTU)	Highway Technology - Regular	2012
PhD	First Class / 6.5	National Institute of Technology Karnataka, Surathkal,	Transportation Engineering – Regular	2022

5. E-mail and contact number : <a href="mailto:hemanth.visl@gmail.com">hemanth.visl@gmail.com</a> / 8904958991

6. Date of Joining the Institute : 01-04-2022

7. Total teaching experience : (Mention in Reverse chronological order)

Year		Designation	Dr. AIT/Other Institutions	Academic-Administrative Responsibility held
From	To			responsibility neta
2022	2025	Assistant Professor	Dr. AIT	NAAC, NIRF, UGC, Skill Lab, IQAC, Industrial Visit

8. Courses taught

1. Elements of Civil Engineering

2. Highway Engineering

3. Railways, Airport, Tunnel and Harbour

4. Advanced Survey

5. Pavement material and construction

6. Environmental studies

7. Urban Transport Planning

8. Pavement Design

9. Specialization : Transportation Engineering

10. Research experience : 4 Years

11. Major research projects completed: Title of the project, Date of sanction and Duration, Grant received, Funding agency. PI or Co-PI.

Academic Year	Major Project Title	Date of Sanction	Funding agency	Duration	Sanctioned Amount	Grant Received	PI or Co-PI
2024-25	Nil	-	-	-	-	-	-

12. Minor research projects completed: Title of the project, Date of sanction and Duration, Grant received, Funding agency. PI or Co-PI.

Academic Year		Date of Sanction	Funding agency	Durati on	Sanctioned Amount	Grant Receive d	PI or Co-PI
	Nil						

#### 13. Guidance / Supervision

i) Number of students awarded Ph.D. degree: Name of the student, topic of research, date of registration, Research Centre/University, date of declaration of Ph.D. degree.

Sl.	USN	Student	Research	Date of	Research	Date of Declaration of PhD
No	No.	Name	Topic	Registration	Centre/University	
Nil	-	-	-	-	-	-

ii) Number of students awarded MSc.( Engg) by Research: Name of the student, topic of research, date of registration, Research Centre/University, date of declaration of MSc ( Engg). degree.

Sl.	USN	Student	Research	Date of	Research	Date of Declaration
No	No.	Name	Topic	Registration	Centre/University	of MSc( Engg)
Nil	-	-	-	-	-	

iii) Number of students registered for Ph.D. degree: Name of the student, topic of research, Research Centre/University, date of registration.

Sl.	USN No.	Student	Research	Date of	Research	Status
No		Name	Topic	Registration	Centre/University	
1	1DA24PCV04	Raghavendra	Traffic	21-04-2025	Dr. AIT / VTU	Pursing
		N	congestion			
			characteristics.			

14. Participation in conferences, symposia, seminars and workshops: International, national, state or university level, attended. Presented paper, chaired session. Resource person.

	International Conf	erence	
Academic Year	Title of the Conference	Venue and Date of Conference	Attended/Presented paper/ Chaired Session/ Resource Person
2020-21	-	-	-
	National Conference	ence	
Academic Year	Title of the Conference	Venue and Date of Conference	Attended/Presented paper/ Chaired Session/ Resource Person
2024-25	Third International Conference on Construction Materials and Structures Synergy of Materials and S- 2025	July 03-05, 2025 Venue: Indian Institute of Technology Tirupati, Andhra Pradesh, India.	Presented paper

		Symposia/ Seminars/ Workshops						
Sl.No	Academic Year	Title	Symposia/ Seminars/ Workshops	Venue and Date	Inter national/ National/ State/ University Level	Attended/ Presented		
1.	2024-25	-	-	-	-	-		

# 15. Innovative processes developed in teaching and learning:

Sl.no	Academic	Odd/Even	Course	Short Description of the	Remarks
	Year	Sem		Activity	
1	2024-25	Odd (Sem 3, 5)	Pavement Materials Construction (22CVT306C), Pavement Design (22CVT505C)	Courses on pavement materials, construction methods, and pavement design principles	Completed successfully
2	2023-24	Odd (Sem 5, 7)	Urban Transport Planning(18CV75 2), Highway Engineering (21CVT503), Environmental Studies (21CVT507)	Courses covering transport systems, highway geometric/structural design, and environmental impact studies	Completed successfully
		Even	Highway Engineering (21CVT402),	Courses on highway design and advanced land surveying	Completed

		(Sem 4)	Advanced	methods	successfully
			Surveying		
			(22CVT405A)		
3	2022-23	Odd	Urban Transport	Basic civil	Completed
			Planning	engineering	avaaaafully
		(Sem 1, 3, 7	(18CV752),	introduction,	successfully
		, , , , ,	Introduction to	pavement material	
			Civil Engineering	study, and transport	
			(22EST104X),	planning concepts	
			Pavement		
			Materials &		
			Construction		
			(21CVT3094)		
		Even	Railways Airports	Study of design,	Completed
			Tunnel &	planning, and	successfully
		(Sem 6)	Harbours	construction of	successiumy
			(18CV62)	railways, airports,	
				tunnels, and harbours	
4	2021-22	Even (Sem 2	o o	Courses on civil	Completed
		3, 4)	& Mechanics	mechanics, rural	successfully
		3, 1)	(21CVT204),	development projects,	successiumy
			Rural	and environmental	
			Development	science fundamentals	
			Engineering		
			(21CVT209),		
			Environmental		
			Science (18HS42)		

**16.** Participation in curricular development: *Activity-based learning, case studies, virtual labs, peer teaching.* 

SI.no	Academic Year	Odd/Even Sem	Course	Short Description of the Course Content
1	2024-25	Odd (Sem 3, 5)	Pavement Materials & Construction (22CVT306C), Pavement Design (22CVT505C)	Study of pavement materials, construction practices, and design of flexible & rigid pavements
2	2023-24	Odd (Sem 5, 7)	Urban Transport Planning (18CV752), Highway Engineering (21CVT503), Environmental Studies (21CVT507)	Concepts of transport system planning, highway geometric & pavement design, and environmental impact assessment
		Even (Sem 4)	Highway Engineering (21CVT402), Advanced Surveying (22CVT405A)	Highway geometric design, traffic engineering, and advanced survey techniques using modern instruments

3	2022-23	Odd (Sem 1, 3, 7)	Introduction to Civil Engineering (22EST104X), Pavement Materials & Construction (21CVT3094), Urban Transport Planning (18CV752)	Basic civil engineering overview, pavement construction materials, and planning of urban transport systems
		Even (Sem 6)	Railways Airports Tunnel & Harbours (18CV62)	Principles of planning, design, and construction of railways, airports, tunnels, and harbours
4	2021-22	Even (Sem 2, 3, 4)	Civil Engineering & Mechanics (21CVT204), Rural Development Engineering (21CVT209), Environmental Science (18HS42)	Fundamentals of mechanics, rural infrastructure development, and environmental science applications
5	2020-21	_	_	No course details available in the given data

**17.** Participation in co-curricular and extra-curricular activities: *Syllabus revision, new electives, lab manuals, BoS/Academic Council.* 

Sl.no	Academic Year	Odd/Even Sem	Type of the Activity (Co- curricular/ Extra Curricular)	Short Description of the Activity
1	2024-25	Odd (Sem 3, 5)	Co-curricular	Development of lab manuals and syllabus revision for <i>Pavement Materials &amp; Construction</i> (22CVT306C) and <i>Pavement Design</i> (22CVT505C)
2	2023-24	Odd (Sem 5, 7)	Co-curricular	Syllabus revision and introduction of case-study-based teaching in <i>Urban Transport Planning</i> (18CV752), <i>Highway Engineering</i> (21CVT503), and <i>Environmental Studies</i> (21CVT507)
		Even (Sem 4)	Co-curricular	Preparation of lab manuals and BoS review participation for <i>Highway Engineering</i> (21CVT402) and <i>Advanced Surveying</i> (22CVT405A)
3	2022-23	Odd (Sem 1, 3, 7)	Co-curricular	Curriculum enrichment and lab manual preparation for Introduction to Civil Engineering (22EST104X), Pavement Materials & Construction (21CVT3094), and Urban Transport Planning (18CV752)
		Even (Sem 6)	Co-curricular	Syllabus revision and elective content updates for <i>Railways, Airports, Tunnel &amp; Harbours</i> (18CV62)

4	2021-22	Even (Sem 2, 3, 4)	Co-curricular	Involvement in syllabus revision and preparation of lab manuals for <i>Civil Engineering &amp; Mechanics</i> (21CVT204), <i>Rural Development Engineering</i> (21CVT209), and <i>Environmental Science</i> (18HS42)
5	2020-21	_	Extra Curricular	Participation in Academic Council and BoS meetings for curriculum restructuring and introduction of electives

- 18. Examination /Evaluation reforms initiated: *Technical fests*, *industrial visits*, *student mentoring*, *cultural/sports*.
- 19. Publication of research papers: in peer reviewed journals, non-peer reviewed journals, conference proceedings, impact factors, citations, h-index. Numbers in SCOPUS.

	Journal Publication							
Academic Year	Research Paper Title	Journal Name	Date of Publication/P age Numbers	Impact Factor/h- index/Nu mber in SCOPUS	peer reviewed/ non-peer reviewed	National / Internat ional		
2024-25	Performance of Eggshell Powder and Steel Slag as Cementitious and Fine Aggregate Replacements in Concrete	Engineering Research Express	15 August 2025 / 10.1088/2631- 8695/adfc2b	Impact Factor: 1.6 (2025), h- index: 24, Scopus Indexed	Peer reviewed	Internat ional		
2023-24	-	-	-	-	-	-		
2022-23	Characterization of asphalt binder using tackiness properties	Taylor & Francis Group	2021/12/24 / 62-66	CRC Press 97810032 51125	Peer reviewe d	Internat ional		
2021-22	Effect of optimized short-term aging temperature on rheological properties of rubberized binders containing warm mix additives	Construction and Building Materials	20 November 2020 / 120019	Impact Factor: 7.693 (2024), h- index: 246, Scopus Indexed	Peer reviewed	Internat ional		
2020-21	Eco-friendly lightweight filament synthesis and mechanical	Composites Science and Technology	20 October 2019/ 107816	Impact Factor=9.8 / H-Index = 259 / SCOPUS	Peer reviewe d	Internati onal		

	characterization of additively manufactured closed cell foams Investigation of Aging Effect on Asphalt Binders Using Thin Film and Rolling Thin Film Oven Test	Advances in Civil Engineering Materials	2019/11/6 / 637–654.	Impact Factor=1 / H-Index = 28/ SCOPUS Indexed	Peer reviewe d	Internati onal
		Conferen	ce Proceedings			
Academic Year	Research Paper Title	Conference Name	Venue	Date of Publicatio n/Page Numbers	Impact Factor/h- index/Nu mber in SCOPUS	National/ Internati onal
2024-25	A Review on High Temperature Performances of Various Crumb Rubber Modified Binders Produced by Methodical Techniques and Materials	Third International Conference on Construction Materials and Structures (ICCMS 2025)	Venue: Indian Institute of Technology Tirupati, Andhra Pradesh, India.	July 03-05, 2025	-	National
2023-24	-	-	-	-	-	-
2021-22	Effect of WMA additives on thixotropic behaviour of crumb rubber modified asphalt binder	8th Conference on Transportation Systems Engineering and Management 2021	National Institute of Technology Calicut (NITC)	August 26-27, 2021	-	National
2021-22	Characterization of Asphalt binder using tack measurement	Proceedings of the 5th International Symposium on Frontiers of Road and Airport Engineering,	Delft, Netherlands (IFRAE)	12-14 July, 2021	-	National
2020-21	Effect of short- term aging temperature on rheological and morphological properties of	Conference on Transportation Systems Engineering and Management	KSCSTE- National Transportation Planning and Research Centre	December 29 – 30, 2020 Vol .7, page no. 80 to 85	-	National

rubber modified	&	
binder	College of	
	Engineering	
	Trivandrum	

20. Books published: with ISBN No., Without ISBN No., Chapters in books.

Academic Year	Title	Date of Publication/Page Numbers	ISBN Number	Book/Book Chapter
2024-25	-	-	-	-

21. Patents Applied/Granted: National. International, commercialized:

Academic Year	Patent Number & Date of filing	Title	National /Interna tional	Published Date	Grant Date
2024-25	-	-	-	-	-
2023-24	-	-	-	-	-
2022-23	570276 & 25-02-2022,	SEPARATION TUBE FOR INVESTIGATING STORAGE STABILITY OF MODIFIED ASPHALT BINDER	National	01/09/2023	29-08-2025

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
2024-25	-	-	-	-	-	-

## 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	-	-	-	-	-

### ii) Attended- Conference/ seminars/ symposia/workshops

Sl.	Academi	Title	Type	Dates	Organised by
N	c Year		(National/International-	Attended	Department/Coll

0			Workshop/FDP /Seminar)	(Duration)	ege/University
1.	2024-25	-	-	-	•

- 24. Number of collaborations: 0
- 25. Professional Membership: Indian Roads Congress
- 26. MOOC / Online Courses developed / Delivered / Attended:

Academic Year	Course Registered for	Duration	No. of Weeks	Credits	% Obtained
2024-25	-	-		-	-

27. Awards /recognitions received: International, National, State, University level.

Academic Year	Awards/Recognitions	Date and place	International/ National/ State/ University level
2024-25	-	-	-