

Chethan Kumar S



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<p><i>Education</i></p>	<p>Ghousia College of Engineering (Visvesvaraya Technological University) – Ramanagaram – Master of Technology in Structural Engineering</p> <p>Year of graduation-2016 Percentage- 76.25 %</p> <p>Government Engineering College (Visvesvaraya Technological University) – Ramanagara – Bachelor of Engineering in Civil Engineering</p> <p>Year of graduation-2014 Percentage- 66 %</p>
<p><i>PhD</i></p>	<p>Completed Viva Voce- 22/07/2023- Awaiting for Degree Certificate</p> <p>Under Guidance – Dr.N.S.Kumar Professor and Head, Department of Civil Engineering, Director R&D, Ghousia College of Engineering (Visvesvaraya Technological University), Ramanagaram.</p>

	<p>Topic- Experimental Studies on Interfacial Bond Strength in Concrete Filled Steel Tube (CFST) Columns</p>
<p><i>Experience</i></p>	<p>6 Years</p> <ol style="list-style-type: none"> 1. Intern : as Junior Structural Engineer at Sterling Engineering Consultancy Services Pvt. Ltd, Bengaluru Aug 2015-Dec 2015 2. Assistant Professor, Department of Civil Engineering, Dr.Ambedkar Institute of Technology, (Aided by Government of Karnataka) Bengaluru-56 28/04/2023 to Till date 3. Assistant Professor, Department of Civil Engineering, Dayananda Sagar College of Engineering, Bengaluru-78 22/07/2017- 27/04/2023 05/10/2016- 31/05/2017
<p><i>Subjects Taught</i></p>	<p>Undergraduate (B.E)</p> <ol style="list-style-type: none"> 1. Elements of Civil Engineering and Engineering Mechanics 2. Strength of Materials. 3. Structural Analysis-I. 4. Structural Analysis-II. 5. Design and Drawing of RC Structures. 6. Concrete Technology. 7. Advance Foundation Design. 8. Survey lab. 9. CAD Lab. <p>Post Graduate(M.Tech)</p>

	<ol style="list-style-type: none"> 1. Stability of Structures 2. Advance Foundation Design 3. Structural Engineering Lab (Software Application)
<i>Projects Guided</i>	<p>B.E: 4</p> <p>M.Tech: 9</p>
<i>Softwares</i>	<ol style="list-style-type: none"> 1. MS Office 2. AutoCad 3. Staad-pro V8i 4. ETABS 5. SAFE 6. MATLAB 7. Minitab
<i>Journal Publications</i>	<ol style="list-style-type: none"> 1. Dr. Venkatesha G, Chethan Kumar S, Prajwal R Gowda. Assessment and spatial distribution of groundwater quality in Bidadi industrial area, Ramanagara district, Karnataka using water quality index (WQI) and GIS. Int J Geogr Geol Environ 2023;5(1):111-128. DOI: 10.22271/27067483.2023.v5.i1b.149 2. Ghazala Anjum, Dr. N S Kumar, Chethan Kumar S, Athiq Ulla Khan “Modeling and Verification of the Mechanical Response of MWCNT And HNC Cement Nanocomposites” Advanced Engineering Science Volume 54, Issue 02, October, 2022 ISSN: 2096-3246 (Scopus Indexed Q3 and UGC Carelist II Included Journal) 3. Chethan Kumar S, Dr.N.S.Kumar “Artificial Neural Network (ANN) based Prediction of Interfacial Bond Strength in CFGST Columns infilled with Light Weight Aggregate Concrete” Neuro Quantology Jul 2022 Volume 20 Issue 7 Page 1370-1382 doi: 10.14704/nq.2022.20.7.NQ33168 (Scopus Indexed Q3 Journal) 4. Anusha S B, Sagar S Jirli, Chethan Kumar S, Dr.N.S.Kumar “Effect of Halloysite Nanoclay on mechanical properties and workability of cement concrete” International Advanced Research

journal in science , Engineering and Technology volume:9/ issue7/
July 2022 DOI: 10.17148/IARJSET.2022.9744

5. Annapurna P Bennur , **Chethan Kumar S** “Effect of Fly-Ash on Mechanical properties and workability of light weight concrete” International Advanced Research journal in science , Engineering and Technology volume:9/ issue7/ July 2022 DOI: 10.17148/IARJSET.2022.9742
6. Athiq Ulla Khan, Dr.N.S.Kumar, **Chethan Kumar S**, Gazala Anjum “Self Compacting Concrete Filled Tubes at Ambient temperatures “ A Qualitative analysis” Stochastic Modelling and Applications Vol.26 No3 Jan-June, Special Issue 2022 Part-8 pp 1505-1514 (**UGC Care List I Journal**)
7. Sagar S jirli, Sachin Malaghan, Sharan Kumar Guttargi, Shashank M K, **Chethan Kumar S** “**Experimental Investigation on influence of HNC on cement mortar**” International Journal of Research publications and reviews, Vol 3, no 6 , pp 42 643 0 , June 2022
8. Anusha S.B, **Chethan Kumar S** “**Halloysite Nano Clay in Construction Material – A Review**” International Advanced Research Journal in Science, Engineering and Technology Vol. 9, Issue 4, April 2022 ISSN (O) 2393-8021 DOI: 10.17148/IARJSET.2022.9418
9. Annapurna P Bennur , **Chethan Kumar S** “**Light Weight Concrete Using Cinder – A Review**” International Advanced Research Journal in Science, Engineering and Technology Vol. 9, Issue 4, April 2022 ISSN (O) 2393-8021 DOI: 10.17148/IARJSET.2022.9419
10. **Chethan Kumar S**, Dr.N.S.Kumar “ **Interfacial Bond Strength in Concrete Filled galvanized steel tube (CFGST) with light weight concrete-Design of Experiment (DoE) Approach**” Stochastic Modelling and Applications, Vol.26 No3 Jan-June, Special Issue 2022 Part-6 pp841-849 (**UGC Care List I Included Journal**)
11. **Chethan Kumar S**, Dr.N.S.Kumar “**Study on Bond Strength in Composite Columns**” International Journal of Creative Research Thoughts Volume10, Issue 2, pp 517 -525, 2022 ISSN:2320-2882
12. Syed Nouman, **Chethan Kumar S**, Dr.N.S.Kumar “Application of ANFIS in Civil Engineering- A critical review” International Research Journal of Engineering & Technology Volume: 09 , Issue: 01 pp -308 - 316, 2022, ISSN 2395-0072

13. Sagar S jirli, Sachin Malaghan, Sharan Kumar Guttargi, Shashank M K, **Chethan Kumar S** “Experimental investigation on influence of Hallosyite Nano Clay on strength of cement mortar” International Research Journal of Modernization in Engineering Technology and Science Volume:4/Issue:1/January-2022
14. Faiz, **Chethan Kumar S**, Dr.N.S.Kumar “Analytical Investigation of Bond Strength Of Concrete Filled Steel Tubes Using Ansys” International Journal Of Creative Research Thoughts – IJCRT 2021
15. Suraj R G, **Chethan Kumar S**, Dr. N. S. Kumar “**Experimental Investigation on Bond Strength in Concrete Filled Galvanized Iron Pipe Using Light Weight Concrete With Expanded Polystyrene Beads**” Volume: 07 Issue: 10, International Research Journal of Engineering and Technology (IRJET)- ISSN: 2395-0072, Oct 2020
16. Sanjay H M, **Chethan Kumar S**, Dr. N. S. Kumar “**Experimental Investigation on Bond Strength in Concrete Filled Steel Tube(CFST) with Welded Internal Rings**” Volume: 07 Issue: 10, International Research Journal of Engineering and Technology (IRJET)- ISSN: 2395-0072, Oct 2020
17. Vinay Gowda, **Chethan Kumar.S** “**Experimental Investigation on Bond Strength in Conventional Concrete Filled Steel Tube-A Review**” Volume 2 issue4-2019, International Journal of Scientific research and Engineering Development, ISSN:2581-7175, 2019
18. Shivadharshan, **Chethan Kumar S**, Dr.N.S.Kumar “**Experimental Investigation on Bond Strength in Self Compacting Concrete Filled Steel Tube**” Volume:6 Issue:7, pp216-224, International Research Journal of Engineering and Technology-ISSN: 2395-0072, July 2019
19. **Chethan Kumar S** “**Use of Hospital Waste in Concrete**” Volume 3, Issue 3, pp.27-32, Journal of Ceramics and Concrete technology, ISSN: 2457-0826, 2018.
20. Shubhashri.K.A, Shruthi.H.L, **Chethan Kumar S** “ **Self Curing Concrete-A Critical Review**” Volume 3, issue 3, pp.12-20, Advances in Civil and Structural Engineering, 2018
21. Dr. Asha K and **Chethan Kumar S** “**Failures due to Corrosion in Concrete Structures**” Volume XXXXV Number 4, pp.5-10 Journal of the Institution of Public Health Engineers, India, 2018

*Conferences
and Seminars*

22. **Chethan Kumar S** and **Dr.N.S Kumar**, “**Grey Relational Analysis Of Recycled Aggregate Concrete Filled Steel Tubes Using L9 Latin Squares Taguchi’s Approach**”, Volume 4, Issue 2, 2017, pp. 35-38, The International Reviewer, ISSN 2395-1575.
23. **Chethan Kumar S**, **Khalid Nayaz Khan**, **Dr.N.S.Kumar** “**Reliability Analysis of CFT Column**” International Journal of Advances in Mechanical and Civil Engineering, ISSN: 2394-2827 Special Issue, Sep-2016.
24. **Chethan Kumar S**, **Khalid Nayaz Khan**, **Dr.N.S.Kumar** (2016) “**Reliability Analysis Of CFT Column By Simulation Approach**” published in IJRET, Volume 5, Issue 7; July 2016.

1. **Chethan Kumar S** and **Dr.N.S.Kumar** “**Optimization of Bond Strength in Concrete Filled Steel Tube**” in A One Day National Conference on “**innovation in Engineering and Technology**” NCIET-2022 held on 13th Aug 2022 at Ghousia College of Engineering, Karnataka
2. **Chethan Kumar S** and **Dr.N.S.Kumar** “**Study on Bond-Slip Behaviour in Concrete Filled Galvanized Steel Tube**” in National Web Conference on Structural, Architectural, Building and Automation in Sustainable Engineering “**SABASE -2020**” held on 3rd and 4th June 2020 Organized by Adithya Institute Of Technology, Tamil Nadu.
3. **Chethan Kumar S** and **Dr.N.S.Kumar** “**Optimization Of Bond Strength Using Grey Relational Analysis For Concrete Filled Steel Tube**” in National Conference In Civil Engineering “**New and Effective Innovations Technologies and Key Challenges 2020**”, NCCE-NITK 2020 held on 30th and 31st Jan 2020 at **National Institute of Technology, Surathkal**
4. **Chethan Kumar S** and **Dr.N.S.Kumar** “**Prediction of Bond Strength between Steel tube and Concrete in Composite Columns using Artificial Neural Network**” International Conference On 'Advances In Materials, Ceramics & Engineering Sciences' (AMCES- 2020), held on 17th & 18th Jan 2020 at Dayananda Sagar College of Engineering, Bengaluru.
5. **Divya S**, **Chethan Kumar S** “**Application of Adaptive Neuro Fuzzy Inference System (ANFIS) in Structural Engineering**” in “**National Conference on Recent Trends in Science,**

Engineering and Management” held on 7th and 8th June 2019 under TEQIP-III at **Dr.Ambedkar institute of Technology, Bangalore**

6. Shivadharshan, **Chethan Kumar S**, Dr.N.S.Kumar “Experimental Investigation of Bond Strength in CFST” National Conference on Recent Advancements in Civil Engineering held on 8th and 9th May 2019 at **ACS college of Engineering Bengaluru.**
7. Divya S, **Chethan Kumar S** “**Application of Adaptive Neuro Fuzzy Inference System (ANFIS) in Civil Engineering- A review**” in “National Conference on Convergence of Science Technology and Management NCCSTM-2019” held on 10th May 2019 at **Dayananda Sagar Academy of Technology and Management.**
8. **Chethan Kumar S** and Dr.N.S.Kumar “**Interfacial Bond Strength in Concrete filled steel tubes- A Review**” in 3rd International Conference on Recent Advances in Engineering Sciences Held on 26th-27th Sept-2018 at **Ramaiah Institute of Technology.**
9. **Chethan Kumar S** “**Polymer Modified Concrete**” Regional Workshop on “Engineering Challenges related to the concept of New Materials in Construction Industry” at Dayananda Sagar College of Engineering, 19th September 2018.
10. Shwetha R, Vidya K.P and **Chethan Kumar S** “ **A Review on Self Compacting Mortars**” National Conference on “Recent Advances in Civil Engineering” at **SJC institute of Technology, Chikballapura, 10th may-2018**
11. **Chethan Kumar S** and Dr.N.S.Kumar “**Reliability and Grey Relational Analysis of Concrete Filled steel Tubes Using Taguchi’s Approach**” ICCMS-17 at **Indian Institute of Technology Hyderabad, on 27-29 Dec 2017**
12. **Chethan Kumar S**, Khalid Nayaz Khan and Dr.N.S.Kumar “**Reliability Study Of Concrete Filled Tubes Using Reliability Index Approach**”ICMCECE-16 at **Bangalore Technological Institute, Held On 23rdApril 2016**
13. **Chethan Kumar S** and Dr.N.S.Kumar “**Grey Relational Analysis of CFST Column**” National Seminar on “Exploration in Civil Engineering” at **Ghousia College of Engineering** held on June 1st 2017.
14. **Chethan Kumar S** and Dr.N.S.Kumar “**Reliability Analysis of Concrete Filled Steel Tubes (Composite Columns) by**

	<p>Reliability Index and Simulation Approach “Third SRESA National Conference on Reliability and Safety Engineering” held at SSN College of Engineering Chennai on 01-03 Dec 2016. Jointly organized by Baba Atomic Research Center.</p> <p>15. Attended one day national seminar on “Advances in structural, highway and CADD engineering” held on 19th may 2016 GCE</p>
<p><i>Workshop/FDP attended</i></p>	<ol style="list-style-type: none"> 1. Attended One Week Faculty Development Program on “Building Information Modeling” Organized by Autodesk and DSCE, Aug-2018 2. Attended AICTE Sponsored Two weeks Faculty Development programme on “Recent applications of NANO materials and Composites” at Ghousia College of Engineering, held during 9th to 22nd November-2017 3. Attended Two Days Faculty Development Program on “Advanced Steel Structures” At Brindavan College of Engineering, Bangalore, 28th & 29th April 2017. 4. Attended Five-days AICTE sponsored Short term course on “Structural Health monitoring” organized by Thangal Kunju Musaliar college of Engineering, Kollam, Kerala, India, 20-25 Feb 2017 5. Attended Two Days Faculty Development Program on “Stability Of Structures”, at Brindavan College of Engineering, Bangalore, & 19th of February 2016 6. Attended Five-Day Workshop on “Faculty Orientation” Conducted At VTU Regional Center, Mysuru From 11th to 15th July 2016.
<p><i>Seminar/FDP Organized</i></p>	<ol style="list-style-type: none"> 1. National Seminar on “Demystifying the Water Resources” WORLD WATER DAY-2022 on 13th April 2022 2. National Conference on “Sustainable Civil Engineering Practices using Smart Materials and Technologies” on 29th June 2020. 3. Five days Faculty Development Programme on “Current Research Trends in Civil Engineering” 5th to 9th August 2019 4. One day National seminar on “Effect Of Corrosion On Durability Of Concrete Structures” on the occasion of World Water Day-2017

***Departmental
Responsibilities
held***

1. CAD Lab In charge of both UG & PG.
2. As CAD Lab In charge Procured Bentley Academic Select Subscription for 3 years. It cost Rs.5Lakhs.
3. 1 st Year coordinator.
4. Member for IQAC (Internal Quality Assurance Cell) in 2018.
5. Involved in M.Tech (Structural Engineering) Syllabus Framing.
6. Coordinator for Board of Studies Meeting held on Feb-2019.
7. Involved in B.E (Civil Engineering) Syllabus Framing.
8. Involved in Criteria 4 during NBA Accreditation Process-Tier I.
9. Involved in Criteria 4 during NBA Accreditation Process-Tier II.
10. Involved in NAAC cycle-2 documentation.
11. Coordinator for Industry Conclave 2018 and 2019.
12. Involved starting of new MBA Program in Real Estate and Infrastructure Development proposed from 2022 academic year.
13. College central Squad Member.
14. Incharge of Social Media platforms for projecting/ departmental activities.
15. Incharge for preparing half yearly reports of departmental activities.

Patent

1. A Patent was published with application No 202141037362 A titled **“A Method for preparing novel composition of Nano cement mortar by using Halloysite Nanoclay (HNC), and Multiwalled carbon Nanotubes (MWCNT)”** on dated 27/08/2021, Inventors: Chethan Kumar S, Dr.N.S.Kumar, Gazala Anjum

Funds/Grants

1. **Project Proposal on** “Assessment of Failure Mechanism in Cement Mortar with Carbon Nanotubes CNT using Acoustic Emission Monitoring” Submitted to Division :Nano Mission Programme or Scheme : Nano Technology of Rs: 44,66,400/- **(Submitted-Under Review)**
2. **Received Rs.30,000/-** under short term studies scheme “**Assessment and Spatial distribution of groundwater quality in Bidadi industrial area, Ramanagara District, Karnataka using Water Quality Index (WQI) and GIS**” from **Karnataka Science and Technology Academy, Government of Karnataka.**
3. **Received Rs.40,000/-** for conducting National Seminar on “Demystifying the Water Resources” **WORLD WATER DAY-2022** from **Karnataka Science and Technology Academy, Government of Karnataka.**
4. **Received Rs.2,00,000/-** for study tour of ATAL TUNNEL under **AICTE Youth Undertaking Visit for Acquiring Knowledge (YUVAK)** scheme.
5. **Received Rs.7,000/-** for UG Student project from **KSCST-2021**
6. **Received Rs.40,000/-** for conducting one day National seminar on “**Effect Of Corrosion On Durability Of Concrete Structures**” from **Council Scientific and Industrial Research (CSIR), Ministry of Science and Technology, Government of India.**

Recognitions

1. Secured “**Best Paper Award**” for “Taguchi Based optimization of bond strength in CFST columns using Grey Relational Analysis” in One day National Conference on “Emerging Trends in Sustainable Built Environment” NCESBE held on 3rd of February 2023 at K S School of Engineering and Management, Karnataka
2. Secured “**Best Paper of the Conference**” for “Optimization of Bond Strength in Concrete Filled Steel Tube” in A One Day National Conference on “innovation in Engineering and Technology” NCIET-2022 held on 13th Aug 2022 at Ghousia College of Engineering, Karnataka
3. Guided- UG Project on “ Experimental investigation on influence of Hallosyite Nano Clay on strength of cement mortar” **Secured 1st place** in Second National level inter

college project competition “DBIT Texpo-2022” held on 20th July 2022 at Don Bosco Institute of Technology.

***Personal
Details***

Date of Birth	05/04/1993
Sex	Male
Nationality and Caste	Hindu & Vokkaliga
Marital Status	Married
Father's Name	Srinivas V
Mother's Name	Leela K
Languages Known	Kannada, English, Hindi
Communication Address	Chethan Kumar S, S/O Srinivas V, #54 “Sri” Nivasa, 3 rd cross Vidyanagara, Annamma Temple road, Opposite Zilla Panchayat office, Ramanagaram-562159.

<i>References</i>	<p>Dr.N.S.Kumar Professor and Head, Department of Civil Engineering, Director R&D, Ghousia College of Engineering, 9535351860, drkumarns@gmail.com</p> <p>Dr.Abhijith CC Professor, Department of Civil Engineering, Dayananda Sagar College of Engineering, 9845292218, abhijith.dsce@gmail.com</p>

I hereby declare that the details given above are true to the best of my knowledge

Place: Ramanagaram

Date:

Chethan Kumar. S