



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY **(Autonomous)**

GANGURU :: VIJAYAWADA – 521 139.

(Approved by AICTE New Delhi, Permanently Affiliated to JNTU Kakinada)

ISO 9001:2015 Certified Institution, Accredited by NAAC-A grade & NBA for CSE& ECE.

E-mail: diet.principal@gmail.com, principal@diet.ac.in, website: www.diet.ac.in, Phone

FACULTY PROFILE

Name of the Faculty Dr. U. Siva Rama Krishna
Designation Professor
Email sivaramakrishna.u@diet.ac.in
Department Civil Engineering
Educational Background



1. Ph.D (Civil Engineering) Acharya Nagarjuna University, 2023
2. M. Tech (Transportation Engineering), JNTU Hyderabad, 2010
3. B. Tech (Civil) Bapatla Engineering College, 2004

Research Areas

Sustainable Pavement Designs, Life Cycle Cost Analysis and Life Cycle Analysis

Experience

Sl. No	Institute	Designation	Period
1.	Dhanekula Institute of Engineering and Technology, Vijayawada	Professor	2025-Till now
2.	GMR Institute of Technology, Rajam	Sr. Assistant Professor	2021-2024
3.	Bapatla Engineering College, Bapatla	Sr. Assistant Professor	2015-2020
4	Vignan University, Guntur	Assistant Professor	2014-2015
5.	St. Ann's College of Engg and Technology, Chirala	Associate Professor	2012-2014
6	SATRA Infrastructure Limited, Hyderabad	Senior Engineer	2011-2012
7	EGIS India, Hyderabad	Quality Control Engineer	2009-2011
8	Aarvee Associates, Hyderabad	Consultant Engineer	2005-2008

List of Publications (National and International Journals)

1. CH. N. Satish kumar & U.Siva Rama Krishna (2019) Ultra-thin white topping concrete mix with sustainable concrete materials –a literature review, *International Journal of Pavement Engineering*, (SCI/Scopus,Q1,4.5 IF) Taylor and Francis Publication 20:2,136,DOI:10.1080/10298436.2016.1274598 (SCI Indexed Journal)
2. U.Siva Rama Krishna & CH.N.Satish Kumar(2020), A Study on concrete mix with quaternary blended sustainable materials for Ultra-Thin White topping. *Jordan Journal of Civil Engineering* JUST, Jordan Publishers. (ESCI/ Scopus, Q3)
3. U.Siva Rama Krishna & CH.N.Satish Kumar(2020), A case study on maintenance of bituminous concrete pavement considering life cycle cost analysis and carbon foot print estimation, *International Journal of construction management*. (ESCI/Scopus, Q1,4.5 IF) Taylor and Francis. DOI:10.1080/15623599.2020.1742629.
4. U.Siva Rama Krishna, Ch. Naga Satish Kumar (2022) “Analytical Modelling of Ultra-thin white topping concrete overlay on bituminous concrete pavement using ANSYS”. *World Journal of Engineering* (ESCI/Scopus, Q3) Emerald Publication.
5. T.Vijaya Gowri, U.Siva Rama Krishna, A.M Azeem A.M, B.Sangamesh (2023) Experimental Studies On Self-Cleaning Concrete By Photocatalytic Activity For Rigid Pavements, *ARPJ Journal of Engineering and Applied Sciences*(Scopus,Q4).ARPJ Publishers.
6. U. Siva Rama Krishna, B. Mohan, Yatin Chowdary, T.Vijaya Gowri (2024) “Optimizing roads for sustainability: Inverted pavement design with life cycle cost analysis and carbon footprint estimation”, *International Journal of Transportation Science and Technology*. Elsevier Publisher (ESCI/Scopus, Q1, 4.5 IF)
7. U. Siva Rama Krishna, Yatin Chowdary, B.Mohan, T. Vijaya Gowri,S.Krishna Rao (2024) Design of sustainable bituminous concrete pavement with cement-treated granular layers constructed on stabilized subgrade, *Word Journal of Engineering*.(ESCI/Scopus,Q3) Emerald Publisher.
8. U.Siva Rama Krishna, N.Vasudeva Pavan Kumar, T. Chiranjeevi. and Mohan Badiger, 2025. Internet of things and digital twins for future smart cities: scientometric analysis. *Intelligent Buildings International*, 17(2), pp.51-63. Taylor and Francis. (ESCI Q1 ,2.2 IF)
9. U.Siva Rama Krishna, Mohan Badiger, K.Shraavan, Ch.Rauram.2026 “Optimization and Sustainable Design of Short-Panelled Concrete Pavement Incorporating Zeolite Powder and Recycled Concrete Aggregate Using Taguchi Method: Structural, Economic, and Environmental Assessment” under review with *Canadian Journal of Civil Engineering*. (SCI Indexed Journal)

National/International Conferences ((National and International):

- 1.U.Siva Rama Krishna, T. Chiranjeevi (2022)“Sustainable concrete pavements for low volume- Scientometric analysis of literature”. -*IOP Conference series: Earth and Environmental Science Journal* (Scopus) Doi:10.1088/1755-1315/982/1/012005.
2. U.Siva Rama Krishna, T.Vijaya Gowri, E.Sree Keerthana (2024) “A Study on the Design of Sustainable Bituminous Concrete Pavement with Subgrade Soil Stabilization” *Lecture Notes in Civil Engineering*, Springer(Scopus)

3. U.Siva Rama Krishna, T.Chiranjeevi, Mohan Badiger(2024) “ A Study on Life Cycle Analysis of Bituminous and Cement Concrete Pavements with Recycled Materials in Circular Economy”, *IOP Conference series: Earth and Environmental Science Journal (Scopus)*
4. T.Vijaya Gowri,U.Siva Rama Krishna, and S.V. Biradar. 2024, June. Bamboo as a sustainable alternative reinforcement material: a review. In *Journal of Physics: Conference Series* (Vol. 2779, No. 1, p. 012015). IOP Publishing.
5. T.Vijaya Gowri, U.Siva Rama Krishna, K. Baswaraj and S.V.Biradar. 2024, June. Sustainable concrete pavements: a comparative analysis of biochar-supplemented and conventional concrete in terms of strength, carbon emissions, and cost. In *Journal of Physics: Conference Series* (Vol. 2779, No. 1, p. 012014). IOP Publishing.

Faculty Development Programs

- 1.FDP on Advanced sustainable practices in Civil Engineering” (2025) Jointly organized by Department of Civil Engineering Dhanekula Institute of Engineering and Technology and Indian Concrete Institute Local chapter Vijayawada.
- 2.“*Advancements in Transportation and Geotechnics for Future Infrastructure*” (2024) jointly organized by the Department of Civil Engineering, GMR Institute of Technology, Rajam, Andhra Pradesh and Kongu Engineering College, Perundurai, Tamilnadu from 1st - 6th April 2024.
- 3.“*Design and Construction Practices of Sustainable Pavements*” (2022) jointly organized by the Department of Civil Engineering, GMR Institute of Technology, Rajam, Andhra Pradesh and Kongu Engineering College, Perundurai 14th to 19th February 2022, jointly GMRIT &BVRIT, Hyderabad, Telangana.
- 4.Publications,Projects& Patents organized by CVR College of Engineering between 28th November and 4th December 2022.
5. One Week Online Faculty Development Program on “Design and Construction Practices of Sustainable Pavements” Organised by GMRIT & BVRIT,14th to 19th February,2022
6. Recent advancements in Pavement analysis Design and Evaluation organized by IIT Jodhpur 20th to 24th september 2021.
7. Recent Advancement in Civil Engineering- Phase-II organized by GMRIT between 4th and 12th July 2021.
8. Recent Trends in Design, Construction and Maintenance of concrete pavements organized by MarBaselios College of Engineering Trivandrum between 5th and 9th July 2021.
9. A Five-day workshop on Design and Construction of Sustainable Pavements, Department of Civil Engineering, NIT Tiruchirapalli, November, 20-24, 2017.
10. A five days Short term course on "Design and Performance of pavements"(DaPOP) under GIAN during 19-23 June 2017, IIT Bhubaneswar.
11. A Five day Faculty development programme on "Effective Teaching and Learning of Flexible Pavement Design" under PMMMNMTT,MHRD organized by Department of Civil Engineering in association with Teaching Learning centre January 17-21st 2018,@NIT Warangal.

Awards or Recognitions etc.,

1. Best Research paper award in the ISTCE-2021 International Conference organized by Bapatla Engineering College, Bapatla.
2. Topper at Post graduate Entrance examination level with 13th rank out of 400 candidates organized by JNTU Hyderabad.
3. Topper with 3rd rank out of 40 candidates at PhD Entrance examination organized by Acharya Nagarjuna University.
4. Acted as Reviewer for International Journal of Cleaner Production and International Journal of Pavement Engineering. (SCI Indexed Journals)

Professional Membership/Certification:

1. Life Member Indian Society for Technical Education

(Dr.U.Siva Rama Krishna)