

CIVIL CHRONICLES

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DEPARTMENT OF CIVIL ENGINEERING

Editorial Board

Faculty Editors:

Dr. V. Jagadish,
Associate Professor,
Department of Civil Engineering.

Mrs. K. Divya,
Assistant Professor,
Department of Civil Engineering.

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S. Spandana (19501A0140) & VIII sem
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R. Ruthwik Ram(21501A0122) & IV sem

Student spotlight Contributors:

Ch. Sri Sai Siva Kumar (20501A0109), VI SEM, Civil

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Achievements

- Md.Zaheer Khan, U.V.Adi Narendra, V.Lakshmana Swami and Sk.Nemathullah won 1st prize in “Seismic Table” of AFOSEC-2023 at VRSEC Vijayawada during 24.02.2023 to 25.02.2023

Publications:

- K.V.Subash, K.S.Nitin Chowdary (18501A0121), V.Varun Gopal (18501A0157), G.Kamalesh (18501A0117) published a paper on "Development of optimum sustainable metakaolin replaced cement concrete based on homogeneity, compressive strength and rapid chloride ion penetration” in *Materials today proceedings*, ISSN: 2214-7853, Vol.80. Part 2, 2023.

Training Programs

- A workshop on “Role of Youth in National Building & Opportunities and challenges in Civil Engineering “ for students and faculty of CE on 12th January 2022. Resource persons: Dr.Manideep Tummalapudi, Professor from California University, Fresno, USA and Er. Sunil, Professor, GITAM University. Coordinators: Dr.V.Jagadish
- A training on “Land Survey by using Total Station” for IV Year students of CE during 06th to 10th February 2023. Resource person: Ladder Survey Pvt.Ltd., Chennai. Coordinators: Dr.K.Shyam Prakash



Alumni Guest Lectures

- A guest lecture on “Handling imbalances in life during studying” for faculty and students of CE on 18th March 2023. Resource person: Ms.B.Mamata, Alumni Member, PVPSIT, Vijayawada. Coordinators: K.V.Subash
- An online webinar on “Special Concrete for environment sustainability” for faculty and students of CE in Collaboration with NDLI club on 06th March 2023. Resource Person: Y.Madhavi, Alumini Member, PVPSIT, Vijayawada. Coordinators: Ms.G.V.R.Kumari
- A guest lecture on “Programming with java” for faculty and students of CE on 09th May 2023. Resource person: Ms.Palapongu Anusha, Alumni Member, PVPSIT, Vijaywada. Coordinators: K.V.Subash and Ms.G.V.R.Kumari

Industry Expert Talk

- A guest lecture was organized on “Career Opportunities in Higher Education for Graduate Engineers” on 24-01-2023 in Room No: 143. Speakers: Dr.P.Muralidhar, Dr.K.Ravindranath.

Workshops

- A workshop on “Role of Youth in Nation Building & Opportunities and challenges in Civil Engineering” for students and faculty of CE on 12th January 2023. Resource persons: Dr. Manideep Tummalapudi, Professor from California University, Fresno, USA and Er. Sunil, Professor, GITAM University. Coordinators: Dr.V.Jagadish



Industrial Visits

- As part of our academic exposure, we, the II B.Tech Civil Engineering students, had the opportunity to visit **LCC Pvt. Ltd., Namburu**, on 17th February 2023, accompanied by Dr. K. Shyam Prakash. The visit provided us with valuable insights into construction processes, material testing, and project management strategies.

Observing real-world engineering applications enriched our learning beyond textbooks.



- We, the II and III B.Tech Civil Engineering students, embarked on an educational visit to the **Puligadda Aqueduct and Road Bridge**, Andhra Pradesh, on 4th March 2023. This visit gave us a first hand understanding of hydraulic structures, bridge design principles, and construction techniques. Exploring such large-scale infrastructure projects deepened our appreciation for the practical challenges and innovations in civil engineering.



Co-curricular Activities

- U.Vinay Kumar participated in guest lecture on “Eco Friendly living and construction practices” organized by Institution of Engineers (India), Vijayawada 12.05.2023

Certification courses

- A 25 number of III Year B.Tech students completed Training program on “Architectural modelling using AUTO CAD” during 15.02.2023 to 28.02.2023
- P.Thanuja completed Course on “TCS ION Career edge-Young Professional” conducted by TCS ION during 22.01.2023 to 18.02.2023
- P.Thanuja Completed Course on “Python Programming: A concise introduction” certified by coursera on 28.02.2023

Student Spotlight: Voices from the Campus

Study on Partial Replacement of Coarse Aggregate with Waste Ceramic Tiles in High Performance Concrete

By Ch. Sri Sai Siva Kumar (20501A0109), VI SEM, Civil

Studying the partial replacement of coarse aggregate with waste ceramic tiles in high performance concrete has provided valuable insights into sustainable construction practices. Through reviewing existing literature and research papers, I learned that using waste ceramic tiles as a substitute for natural coarse aggregate can help reduce environmental impact by recycling construction and demolition waste. The study showed that incorporating ceramic tile waste in concrete mixes can improve durability and abrasion resistance while maintaining adequate compressive strength, which is essential for high performance concrete applications. However, challenges such as proper particle size distribution and bonding between the ceramic particles and cement paste were noted. This study enhanced my understanding of eco-friendly materials in concrete technology and motivated me to explore innovative solutions for sustainable construction in the future.