

CIVIL CHRONICLES

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DEPARTMENT OF CIVIL ENGINEERING

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Student spotlight Contributors:

B. Siri Chandana (20501A0102), V SEM
Md. Zaheer Khan (20501A0132), V SEM

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:

- Dr.V.Jagadish, Ms.K.Divya and Ms.V.Hema Varshini (18501A0156) published a paper on "Analysis of bamboo integrity structures" in Materials today proceedings, ISSN: 2214-7853, Pg.2060-2065, Vol. 65 (2), 2022.

Industry Expert Talk

- A guest lecture on “Concrete Construction Practices” for faculty and students of CE on 07th September 2022. Resource person: Er.K.Venkatraman, Regional Head, Technical Services-Ultratech Cement Ltd, AP. Coordinators: Mrs.K.Prasanthi and Mrs.M.Durga Prasanna
- A guest lecture on “Importance of Civil Engineering” for faculty and students of CE on 15th September 2022. Resource person: Mr.K.Satish, Quality and Business Development Executive, LCC Ready Mix Concrete Pvt. Ltd. AP. Coordinator: Dr.K.Shyam Prakash
- A guest lecture on “Application of civil engineering softwares” for faculty and students of CE on 19th November 2022. Resource person: Mr.V.Murali Krishna Trainer & Business Development, Learnet Skills Limited, Penamaluru. Coordinators: Ms.G.V.R.Kumari and K.V.Subash
- A guest lecture on “Basic site execution” for faculty and students of CE on 29th September 2022. Resource person: Mr.A.Hema Sai, Assistant Project Manager, Avenue Supermarts Ltd, Kakinada. Coordinator: Dr.K.Shyam Prakash

Alumni Guest Lectures

- A guest lecture on “Demonstration of rapid chloride penetration test on concrete” for faculty and students of CE on 21st October 2022. Resource person: Mr.K.Sai Nitin Chowdary, Alumni Member, PVPSIT, Vijayawada. Coordinators: K.V.Subash and Ms.K.Divya

Workshops

- A workshop on “BIM using Revit Architecture” for faculty and students of CE during 14th to 16th November 2022. Resource person: Canter Technologies Pvt Ltd, Vijayawada. Coordinators: Dr.K.Shyam Prakash

Technical Events

- A Engineers day events on “Paper presentation competition (PPT) and Auto CAD” for students of CE during 15th September 2022. Coordinator: Dr.A.Adilakshmi

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Industrial Visits

- As part of our academic exposure, we, the 4th B.Tech Civil Engineering students, had the opportunity to visit **Vijayawada Railway Station on 12th August 2022**, accompanied by Dr. K. Shyam Prakash. The visit provided us with valuable insights into railway infrastructure, station planning, and track engineering. Observing the operational aspects of railway networks and understanding the structural design of railway stations enhanced our practical knowledge beyond classroom learning.



Co-curricular Activities

- K.K.Varma, Ch.V.V.Kumar, G.O.N.Kumar, M.Sandeep participated in training program on “Application of machine learning in civil engineering” organized by VVIT, Guntur during 25th to 27th August 2022
- M.Priyanka, Y.Nagalakshmi, P.Ganesh, G.Vyshnavi and P.Sowmya participated in paper presentation contest (Neonite–2k22) organized by VRSEC, Vijayawada during 28th to 29th September 2022
- The third year department of Civil Engineering students undergone internship at
 - 1) PIU, NHAI, Mangalagiri
 - 2) Varaha Infra Limited, Eluru
 - 3) Navayuga Engineering Ltd, Thulluru
 - 4) Municipal Commissioner, Tadigadapa Municipality
 - 5) Er. V.Rajabapaih, Chartered Engineer and Valuer, Vijayawada
 - 6) AGM Vijay Nirman Company Pvt. Ltd, Vijayawada
 - 7) LCC Pvt. Ltd, Namburu
 - 8) EE, Panchayatraj Engineering Division, Vijayawada
 - 9) Megha Engineering & Infrastructures Limited, Hyderabad
 - 10) APSHCL, Etcherla Sub Division
 - 11) SVK Constructions, Vijayawada
- The fourth year department of Civil Engineering students undergone internship at
 - 1) MBMR Infra, Poranki
 - 2) SVK Constructions, Vijayawada
 - 3) Avantika Pridewalls, Hyderabad
 - 4) EE, Panchayatraj Engineering Division, Vijayawada
 - 5) KNR Constructions Limited, Hyderabad
 - 6) Creative Koven Developers LLP, Hyderabad
 - 7) South Central Railway, Engineering department, Vijayawada
 - 8) South Central Railway, Office of Deputy Chief Engineer Construction, Vijayawada
 - 9) Pooja Crafted Homes Pvt. Ltd., Hyderabad
 - 10) Lalitha PVS Institute of Medical Sciences, Guntur

Student Spotlight: Voices from the Campus

A Study on Stabilization of Black Cotton Soil with Lime and Fly Ash

By Badugu Siri Chandana (20501A0102), V SEM, Civil Engineering

Studying the stabilization of black cotton soil using lime and fly ash was an informative and enlightening experience. Black cotton soil is known for its high swelling and shrinkage properties, which cause serious challenges in construction projects. Through reviewing various research articles and case studies, I learned that adding lime and fly ash to this soil improves its engineering properties by reducing plasticity, increasing strength, and enhancing stability. Lime reacts chemically with the soil, leading to a reduction in swelling potential, while fly ash contributes to pozzolanic reactions that further strengthen the soil matrix. The combination of these materials offers a sustainable and cost-effective solution for improving black cotton soil for road construction and foundation works. This study helped me appreciate the importance of soil stabilization techniques in civil engineering and encouraged me to explore practical applications in geotechnical engineering.

Victory in “Seismic Table” Event at AFOSEC-2023

By Md. Zaheer Khan (20501A0132), V SEM, Civil Engineering

Participating in the “Seismic Table” competition at AFOSEC-2023, held at VRSEC Vijayawada from 24th to 25th February 2023, was a remarkable experience for our team. Along with my teammates U.V. Adi Narendra, V. Lakshmana Swami, and Sk. Nemathullah, we worked hard to design and build a model capable of withstanding simulated earthquake forces on the seismic table. The event tested our understanding of seismic behavior and structural dynamics, pushing us to apply our classroom knowledge to practical challenges. Our combined efforts and teamwork paid off when we won the 1st prize among many competing colleges. I sincerely thank our Head of Department and all the faculty members for their continuous support and guidance throughout our preparation. This achievement has inspired us to further deepen our knowledge in earthquake-resistant design and reinforced the importance of collaboration in engineering projects. I am also grateful to the AFOSEC organizing committee for providing this excellent opportunity.