CIVIL INFO

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"Take risks in your life.

.

If you win, you can lead

If you lose, you can guide."

– Swami Vivekananda

Editorial &Design Team:

Faculty

Mr.V.Narasimha Rao

Assistant Professor

Department of Civil Engineering

Principal'sMessage



Dear Parents and Students,

It is with great pleasure that I welcome you to our College (DIET) Newsletter.

As Principal I am hugely impressed by the commitment of the college and the staff in providing an excellent all-round education for our students with our state-of-the-art facilities. We as a team working together, strongly promote the zeal towards academic achievement among our students. The cultural, sporting and other successes of all our students and staff are also proudly celebrated together.

I congratulate the staff and students who brought latest technologies and concepts onto the day-

to-day teaching learning platform. As long as our ideas are expressed and thoughts kindled, we can be sure of learning, as everything begins with an idea.

I appreciate every student who shared the joy of participation in co-curricular and extracurricular activities along with their commitment to curriculum. That little extra we do, is the icing on the cake. 'Do more than belong – participate. Do more than care – help. Do more than believe – practice. Do more than be fair – be kind. Do more than forgive – forget. Do more than dream – work.'

With a long and rewarding history of achievement in education behind us, our DIET community continues to move forward together with confidence, pride and enthusiasm.
I hope you enjoy your visit to the website and should you wish to contact us, please find details at the www.diet.ac.in/

Yours in Education,

Dr. Ravi Kadiyala
Principal

Message from the Head of the Department

Dear Students, Faculty, and Alumni,

It gives me great pleasure to connect with you through this edition of our Civil Engineering Department Newsletter. Our department continues to thrive as a hub of innovation, learning, and collaboration. Over the past months, we have witnessed remarkable achievements—be it student projects, faculty research, or industry partnerships—that reflect the dedication and talent within our community.

As we navigate an ever-evolving technological landscape, our focus remains on equipping students with the skills and mindset required for real-world engineering challenges. I encourage all of you to actively participate in academic and extracurricular activities, make the most of available resources, and stay curious and inspired.

Let us continue to build a culture of excellence, innovation, and mutual support. My sincere thanks to everyone contributing to the growth and success of our department.



Yours in Education,

Dr. G. Vinay Kumar
HOD

PROGRAM OUTCOMES(POs)

1.Engineering knowledge :apply the knowledge of mathematics ,science ,engineering fundamentals ,and an engineering specialization to the solution of complex engineering problems.

2.ProblemAnalysis :identify ,formulate, review research literature, and analyze complex engineering problems reaching sustained conclusions using first principles of mathematics ,natural sciences, and engineering sciences.

3.Design/Development Of Solutions :design solutions for complex engineering problems and design system components or process that meet the specified needs with appropriate consideration for the public health and safety, and the cultural ,societal ,and environmental considerations.

4.Conduct Investigations Of Complex Problems :use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5.Modern Tool Usage :create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6.The Engineer And Society: apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7.Environment And Sustainability: understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8.Ethics:apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9.Individual And Team Work: function effectively as an individual, and as a member or a leader in diverse teams, and in multidisciplinary settings.

10.Communication: communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11.Project Management And Finance: demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12.Life- Long Learning: recognize the need for, and have the preparation and ability to engage in independent and life- long learning in broadest context of technological change.

NSS

NATIONALSERVICESCHEME

DIET - National Service Scheme (NSS) have organized a Medical Camp collaboration with Andhra Hospitals on 05-08-2022 for teaching & non-teaching sta This programme was headed by Dr.Achyut Babu (Andhra Hospitals).

In this camp free medical services like Diabetics, Hyper Tension, Cardi Diseases & Kidney Diseases screening are done and also Health cards are issued for t faculty who got checked by which their family members also gets benefited by getti discount on health checkup. About 28 faculty members have participated and utiliz this medical camp.



Behalf of Clean India Campaign 2.0 Programme DIET National Service Scheme (NSS) have organized a briefing session the student volunteers on 19-10-2022 followed by execution of t programme in the campus as per the instructions given by JNTUK (20.10.2022.

On 20-10-2022, DIET - National Service Scheme (NS student volunteers have executed Clean India Campaign 2 Programme and collected plastic waste of 20kgs in the campus fro 1:00 PM to 4:30 PM.

The collected plastic waste (20kgs) was segregated a wrapped in packs. And handed over the waste to Gram Panchay Penamaluru on 22-10-2022.







On August 15, 1947, India became free from British rule. The day has been marked as Independence Day ever since that year. The day marks the sacrifice of many people known as freedom fighters, who gave their lives happily for their motherland's freedom. Now we are completing 75 years of freedom. As a part of this, DIET - National Service Scheme (NSS) Unit has conducted a Rally on 12.08.2022 from Dhanekula Institute of Engineering & Technology to Ganguru village and it was started by Dr.Ravi Kadiyala, Principal, DIET. The rally was continued with the slogans used by our freedom fighters to awaken the spirit of independence in the citizen like 'Give me blood and I will give you freedom', 'Jai Jawan Jai Kisan Jai Vigyan', Freedom is not given, Freedom is taken', etc. In this rally Raju Gogam, NSS PO, about 50 students were participated and donated flags to every house.





On the eve of “Van Mahotsava Divas Week” (01.07.2022 to 07.07.2022), Dhanekula Institute of Engineering and Technology - National Service Scheme (NSS) Unit have organized a Poster Presentation Competition with a theme of “A VAST DRIVE FOR PLANTING TREE TO CONSERVE FORESTS”. In this competition 20 students of all the departments have participated and presented their ideas in the form of posters. The concepts of these posters were explained by the students to the judge Dr.G.Vinay Kumar (Head of the Department, Civil Engineering) by the students. Appreciation & Participation certificates are issued to the winners and participants.



FDP'S ATTENDED

"Faculty members actively participated in various Faculty Development Programs (FDPs) conducted by reputed institutions. These programs covered emerging trends in technology, pedagogy, and research methodologies, enhancing the teaching and professional skills of the participants. Their involvement reflects a commitment to continuous learning and academic excellence."

FDP on Multidisciplinary And Modeling Approaches In Civil Engineering Practices

The FDP provided participants with insights into the integration of **structural, geotechnical, transportation, environmental, and construction engineering** with advanced modeling and simulation techniques. The sessions emphasized practical applications of engineering software, computational methods, Building Information Modeling (BIM), sustainable design practices, and data-driven approaches.







Faculty Research Publication

G. Raju has published a research paper titled **"Enhancing the Properties of Soil Using Waste Plastic Powder"** in the *International Journal of Research and Technology*. The paper was published in **Volume 10, Issue 2**, in **June 2022**.

The research explores the use of waste plastic powder to enhance soil properties, highlighting an innovative approach to both **soil improvement and effective utilization of plastic waste**. This work contributes to sustainable engineering practices by addressing environmental concerns while improving the performance of soil for engineering applications.

INDUSTRIAL VISIT

LCC READY MIX CONCRETE PRIVATE LIMITED
Ready-mix Concrete Private Limited is an unlisted private company incorporated on 02 January, 2016. It is classified as a private limited company and is located in Krishna, Andhra Pradesh. Its authorized share capital is INR 5.00 lakh and the total paid-up capital is INR 1.00 lakh. The current status of LCC Ready-mix Concrete Private Limited is - Active. The last reported AGM (Annual General Meeting) of LCC Ready-mix Concrete Private Limited, per our records, was held on 30 November, 2021. LCC Ready-mix Concrete Private Limited has four directors - Lakshmi Naga Ramesh Konda, Rajesh Babu Vaka, and others. The Corporate Identification Number (CIN) of LCC Ready-mix Concrete Private Limited is U45400AP2016PTC098012. The registered office of LCC Ready-mix Concrete Private Limited is at 5-80-10/1, ground floor Ashok Nagar, 1st lane, Guntur, Krishna, Andhra Pradesh

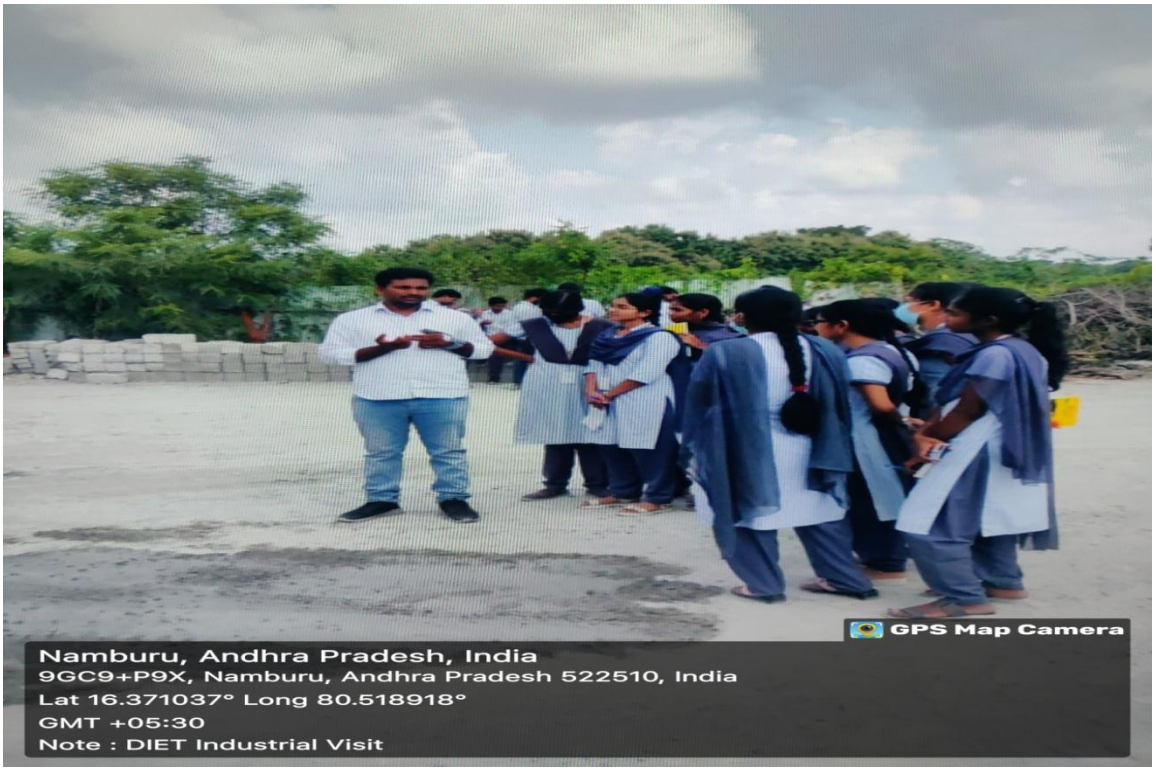
Ready-mix concrete is concrete that is manufactured in a factory or batching plant, according to a set recipe, and then delivered to a work site by truck mounted in– transit mixers. This results in a precise mixture, allowing specialty concrete mixtures to be developed and implemented on construction sites. The first ready-mix factory was built in the 1930s, but the industry did not begin to expand significantly until the 1960s, and it has continued to grow since then. Ready-mix concrete is often preferred over on-site concrete mixing because of the precision of the mixture and reduced work site confusion. Ready-mix concrete, or RMC as it is popularly called, refers to concrete that is specifically manufactured for delivery to the customer's construction site in a freshly mixed and plastic or unhardened state. Concrete itself is a mixture of Portland cement, water and aggregates comprising sand and gravel or crushed stone.



RMC is being increasingly used as a building material for residential & commercial buildings, manufacturing facilities, energy generation plants, roads and runways. Infrastructure development in emerging economies coupled with increasing trend of urbanization is some of the key factors which are expected to drive industry growth over the forecast period

Salient Features of Concrete Batching Plant

- Reliable design
- Easy to maintain design
- Easy to use software
- Mixer options – Twin-shaft, PAN and planetary mixer available
- Consistent and sturdy performance
- Well-engineered products for less maintenance
- Can generate detailed reports for different customer requirements.
- Accurate weighing for a quality end product
- Hardened plates used for tips for a long life.
- Replaceable arms, tips and liners plates
- Robust fabrication quality for all bins and overall structure
- Independent weighing system for aggregates, cement, water & additive
- Electronic operation with PLC Control – fully automatic operation
- Feeder bins available in in-line configuration and in 2 x 2 bin pattern
- All possible configurations available: stationary, mobile and portable




GPS Map Camera
Namburu, Andhra Pradesh, India
9GC9+P9X, Namburu, Andhra Pradesh 522510, India
Lat 16.371037° Long 80.518918°
GMT +05:30
Note : DIET Industrial Visit