CIVIL CRONICLES

The official newsletter of department of civil engineering

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Vision

To grow as a globally recognized centre in Civil Engineering with a focus on innovation and research by combining technical and ethical qualities.

Mission

M1: Professional Skills

To provide a better environment to encourage innovative and research thinking among students.

M2: Life-Long Learning

Instill in students contemporary knowledge in order to achieve the academic and the professional excellence with global perspective through the experience of lifelong learning.

M3: Engage with Society

Impart sense of the community responsibility and the leadership qualities to better meet the challenges of sustainable growth.

Industrial Visit to Sreenath Prestress Pvt Ltd, Goa: A Day of Immersive Learning

May 17, 2023

Industrial Visit at Sreenath Prestress Pvt Ltd, Goa

In an endeavour to bridge the gap between theoretical knowledge and practical application, final year students embarked on a transformative
industrial visit to Sreenath Prestress Pvt Ltd, Goa. Nestled in the picturesque landscapes of Goa, Sreenath Prestress Pvt Ltd stands tall as a beacon of innovation in the realm of prestressed concrete manufact-uring.The students, brimming with anticipation and excitement, meticulously organized their final year trip schedule, allocating a dedicated day for their rendezvous with the industrial giant.

Despite the weariness of a long journey, their enthusiasm remained undeterred as they set foot into the premises of Sreenath Prestress Pvt Ltd. Upon arrival, the students were greetedwith warmth and hospitality, setting the tone for a day filled with enriching experiences.

However, it was the captivating demonstrati- on by the project demonstrator at Sreenath Prestress Pvt Ltd that truly stole the show. With unwavering dedication and expertise, the demonstrator illuminated the intricate processes involved in prestressed concrete manufacturing, leaving the students spellbound.

From the inception of raw materials to the final product, every stage of the manufacturing process was meticulously explained,off-ering invaluable insights into the amalgamation of science and technology in industrial operations. The students, with rapt attention, absorbed every detail, eager to augment their understanding of the subject matter.
Furthermore, the industrial visit provided a platform for interactive sessions, allowing students to engage in insightful discussions with industry experts.

Queries were met with patience and clarity, fostering a conducive environment for knowledge exchange and learning.
As the day drew to a close, the students departed with a newfound appreciation for the intricacies of industrial operations and a renewed zeal to apply their learnings in practical settings. The industrial visit to Sreenath Prestress Pvt Ltd served as a cornerstone in their academic journey, empowering them with experiential knowledge and invaluable insights that transcend the confines of textbooks.

In essence, the visit epitomized the symbiotic relationship between academia and industry, underscoring the importance of hands-on experiences in shaping well rounded professionals poised to tackle real-world challenges.
As the students bid adieu to Sreenath Prestress Pvt Ltd, they carried with them not just memories of a day well spent, but a reservoir of knowledge and inspiration that will continue to guide their pursuits in the realm of engineering and beyond.

St. Thomas College of Engineering & Technology Partners with KSCSTE - NATPAC to Foster Research and Development in Transportation Engineering

June 5, 2023

In a significant stride toward advancing research and development in transportation engineering, St.Thomas College of Engineering & Technology has officially entered into a MoU with the Kerala State C itouncil for Science, Technology, and Environment's National Transportation Planning and Research Centre (KSCSTE-NATPAC).
The MoU, signed on June 5, 2023, marks a collabo- rative effort between Dr. Shinu Mathew John, Principal of St. Thomas College of Engineering &Technology, and Dr. Samson Mathew, Director ofKSCSTE-NATPAC. The ceremony, held at the college premises, brought together key representatives from both institutions, emphasizing their commitment to fostering innovation and excellence in the field of transportation engineering.
KSCSTE—National Transportation Planning and Research Centre (NATPAC), operating under the umbrella of the Kerala State Council for Science, Technology, and Environment, stands as a premier research and development institution in the country. Renowned for its expertise in multi-modal transportation systems, NATPAC encompasses road, rail, water, air, and more.

Under the terms of the MoU, KSCSTE-NATPAC has pledged to provide students and faculty members of St. Thomas College of Engineering & Technology with access to cutting-edge laboratory facilities. This move is set to enrich the academic experience by allowing hands-on exploration and experimentation in the field of transportation engineering.
Additionally, KSCSTE-NATPAC has committed to actively supporting research and development initiatives undertaken by the college. By leveraging their extensive knowledge and resources, the collaboration aims to propel advancements in transportation engineering that align with the evolving needs of the industry.
As the collaboration takes shape, both institutions are optimistic about the potential impact on the education landscape and the transportation industry.The synergy between academic expertise and research capabilities is expected to yield innovative solutions, addressing contemporary challenges in transportation engineering.
This collaboration serves as a testament to the commitment of St. Thomas College of Engineering & Technology and KSCSTE-NATPAC to push the boundaries of knowledge and contribute to the development of a sustainable and efficient transportation ecosystem.

Placement Offers

Rinsha A K ,got selected in K&N Architects/Builders Pvt.Ltd

Akshaya S & Sneha K got selected in Goan Institiute International Consociation of Education

Ayisha Nima Zubair got selected in Intellipaat Software solutions Pvt.Ltd

Fathimath ShahalaP & Thushara P V got selected in Planet Spark

Sayana S Prabhakaran & Nishna K Raman got selected in Planet spark

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1:

To solve engineering problems related to civil engineering by systematic techniques, skills and tools to meet the ever- growing needs of sustainable infrastructural development.

PSO2:

Design and build civil engineering-based systems in the context of structural, geotechnical, transportation and environmental requisites.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1:

Achieve excellence in the professional practices of civil engineering by utilizing the acquired knowledge and technical skills supported by modern day tools

PEO2:

Participation in decision making and nation building by adopting energy efficient ans sustainable practices in civil engineering

PEO3:

Encourage innovative thinking and entrepreneurship through research and higher studies in advanced areas of civil engineering

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 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.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 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.

PO7 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.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 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.

PO11 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.

PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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