MONTHLY NEWSLETTER

DEPARTMENT OF CIVIL ENGINEERING

" Transforming Engineering Students into Industry-Ready Professionals "

DEPARTMENT OF CIVIL ENGINEERING

PROGRAMME SPECIFIC OUTCOMES

PSO1: Plan, Analyse and Design sustainable infrastructure.

PSO2: Build, manage and maintain construction projects adhering to the highest quality and safety standards.

PSO3: Apply innovative and emerging technologies and tools to solve real world civil engineering problems for society.

Final Year Projects in Civil Engineering Department Showcased Remarkable Evolution on May 8th

In a remarkable display of innovation and technical prowess, the final year projects presented by students in the Civil Engineering Department at [Sharda University] on May 8th left a lasting impression on faculty, industry professionals, and fellow students. The event showcased the evolution and advancement of ideas in various sub-disciplines within the field of civil engineering.

CUTTING-EDGE LIBRARY WITH ADVANCED COMPUTING FACILITIES ENHANCES CIVIL ENGINEERING DEPARTMENT

Sharda University Civil Engineering Department is thrilled to announce the opening of its technologically advanced library, offering an extensive range of resources and equipped with state-of-the-art computers.

NPTEL 2023

Shivam Kumar of 3rd year from civil department has successfully completed the **Maintenance and Repair of Concrete Structures** course securing position at top 2%.

Board of Study Proposes Exciting New Courses in B.Tech Curriculum

The Board of Study (BOS) at Sharda University esteemed engineering department has unveiled a series of exciting new courses proposed to be integrated into the B.Tech curriculum. These courses have been carefully designed to provide students with comprehensive knowledge and practical skills in various domains of civil engineering.

PAPERS PUBLISHED

Title of Paper- Mechanical Properties of Concrete Made with Calcined Clay
Author- Dr. Tushar Bansal, Assistant Professor, Civil Engineering (CE)
Brief Description- A review of the mechanical property development of concrete containing calcined clay was performed. A comparison of compressive and tensile strength results showed that concrete can be made to have equivalent or higher strength as an ordinary Portland cement (OPC) system with up to 30% calcined clay or 50% blend of calcined clay and limestone fines in a limestone calcined clay cement (LC3) system, as long as the kaolinite content in the clay used is above 40%.Most of the strength development in these systems occurs during the first 7 days, making extended wet curing not necessary in these systems. Calcined clay systems are subject to the cross-over effect because of the high solubility of ettringite and lower cement degree of hydration at elevated temperatures. Concrete creep and shrinkage were found to be a function of the clay kaolinite content and replacement level. Bond strength was improved by the use of up to 20% metakaolin.

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