



Learn Beyond

**KPR Institute of Engineering and Technology**

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CE002

NBA Accredited

(CSE, ECE, EEE,

MECH, CIVIL)

**GUEST LECTURE ON FUTURE OF CONCRETE- CONCRETE MARATHON**

Event No	CE002
Organizing Department	Civil Engineering
Associate Dept.   NSC	Office of Alumni Relations
Date	07/09/2023
Time	11:00 AM to 12:45 PM
Event Type	Guest Lecture
Event Level	NSC
Venue	II CLASS ROOM
Total Participants	81
Industry Personnel	4
Students - Internal	77

## Related SDG



## Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Ashok Kumar P	Senior Project Engineer	Vinayaga Constructions	ashok12@gmail.com	xxxxxxxxxx

## Involved Staffs

Sl	Name	Role
1	Indhira Devi P	Coordinator
2	Kavinkumar V	Coordinator

## Outcome

The guest lecture on 'The Future of Concrete,' featuring [Speaker's Name], was a resounding success, offering attendees—including construction professionals, engineers, architects, and students—an in-depth exploration of innovations and trends shaping the concrete industry. Participants gained valuable insights into advanced materials such as self-healing concrete, high-performance variants, and sustainable alternatives like green concrete, understanding their potential to enhance durability and sustainability in construction. The lecture also highlighted cutting-edge technologies such as 3D printing, nanotechnology applications, and smart concrete with embedded sensors, showcasing their transformative impact on construction practices. Discussions on environmental sustainability, including carbon capture, recycling initiatives, and eco-friendly material choices, provided practical strategies for reducing the environmental footprint of concrete production. Attendees left the event equipped with newfound knowledge and inspired by the possibilities of integrating these innovations into future projects, while networking opportunities fostered collaboration across disciplines, ensuring ongoing dialogue and advancement in the field.

## Event Summary

On 07.9.2023, Department of Civil engineering hosted a guest lecture titled 'The Future of Concrete,' featuring Mr. Ashok Kumar, Senior Project Engineer from Vinayaka Constructions. The event attracted a diverse audience comprising construction professionals, engineers, architects, and students eager to explore advancements shaping the concrete industry. **Key Topics Covered:** The lecture commenced with an overview of innovative concrete materials, including discussions on self-healing concrete, high-performance variants, and sustainable alternatives like green concrete. Participants gained insights into how these materials enhance durability, strength, and environmental sustainability in construction projects. Technological advancements took center stage as the speaker detailed applications of 3D printing, nanotechnology, and smart concrete embedded with sensors. These technologies were presented not only as tools for improving construction efficiency but also for creating intelligent infrastructure capable of adapting to environmental and operational changes. Environmental sustainability was a focal point, with discussions focusing on strategies such as carbon capture, recycling initiatives, and the use of eco-friendly materials in concrete production. Attendees learned practical approaches to reducing the carbon footprint of construction activities and promoting sustainable building practices.

The poster features the KPR Institute of Engineering and Technology logo at the top left. It is titled 'CONCRETE DAY CELEBRATION' and 'LECTURE ON THE FUTURE OF CONCRETE'. The speaker is 'Mr. Ashok Kumar. P, Senior Project Manager, Vinayaga constructions'. A circular portrait of the speaker is on the right. The date and time are '07.09.2023 | 11.00AM' and the venue is 'II CIVIL'. Social media icons and the website 'kpriet.edu.in' are at the bottom.

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