

## DEPARTMENT OF CIVIL ENGINEERING

### Technical Talk

### Report on

## “SUSTAINABLE MATERIALS IN CONCRETE”

Department of Civil Engineering organized a technical talk on “Sustainable Materials in Concrete” on 09<sup>th</sup> July 2024 for 4<sup>th</sup> & 6<sup>th</sup> semester students with an objective of minimising the gap between the academics and industry.



The poster features a background image of a construction site with a large concrete structure. At the top left is the ATME logo. At the top right are logos for Civil Engineering, NBA, and A+ NAAC. The main text reads: 'Department of Civil Engineering is organizing a TECHNICAL TALK ON SUSTAINABLE MATERIALS IN CONCRETE'. Below this, it specifies the date (9<sup>th</sup> July 2024), venue (C108), and timings (11:15 AM – 01:15 PM). The target audience is 'Students of 4<sup>th</sup> & 6<sup>th</sup> Semester'. A purple box highlights 'RESOURCE PERSON' above a circular portrait of Mr. Vishwanath K Dalawai, Vice President, Direct Sales Sustainability, JSW Cement Limited India Bangalore. At the bottom left, contact information is provided: Phone: 0821- 2954081/11, Email: info@atme.edu.in | Web: www.atme.edu.in, 13th Kilometer, Mysore - Kanakapura - Bangalore Road, Mysore - 570028. At the bottom right, it says 'Follow us on' with icons for Facebook, X, Instagram, and YouTube.

Resource person during the presentation explained why the Sustainable materials plays a vital role in civil engineering. The advanced methods of using the admixtures and super plastizers s in construction to design the structural concepts with having the maximum usage. The high rise , metro and long span bridge structures are very trending nowadays using the advanced materials for construction which are very much essential.

  
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### Photos



Fig: Welcoming the Resource person

  
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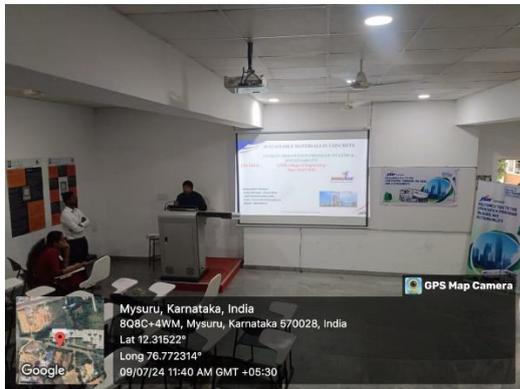


Fig: Explaining and Participation Certificate distribution

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### Outcome :

The students will be able to:

- **Acquire** how the enhanced structural monitoring will be used for early detection of issues such as cracks, corrosion, or deformation.
- **Ensure** Self-healing properties in smart concrete materials contribute to improved durability by autonomously repairing micro-cracks before they escalate into larger issues.
- **Understand** how some smart materials can harvest energy from the environment, such as vibrations or sunlight, to power embedded sensors or other smart functionalities.

  
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