ATME College of Engineering

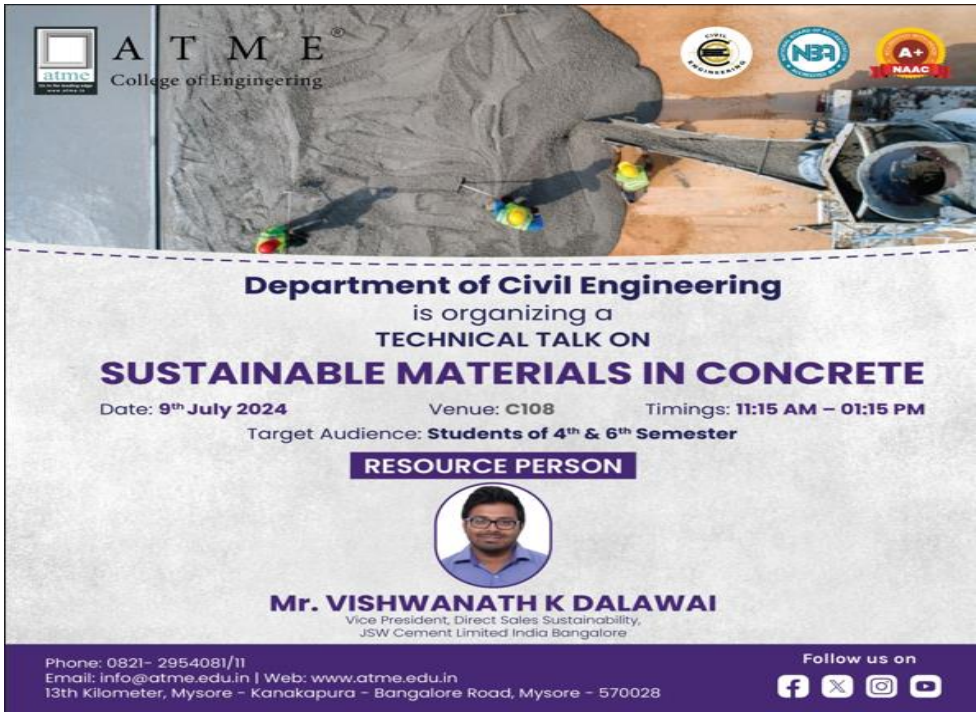
DEPARTMENT OF CIVIL ENGINEERING

Technical Talk

Report on

"SUSTAINABLE MATERIALS IN CONCRETE"

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



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

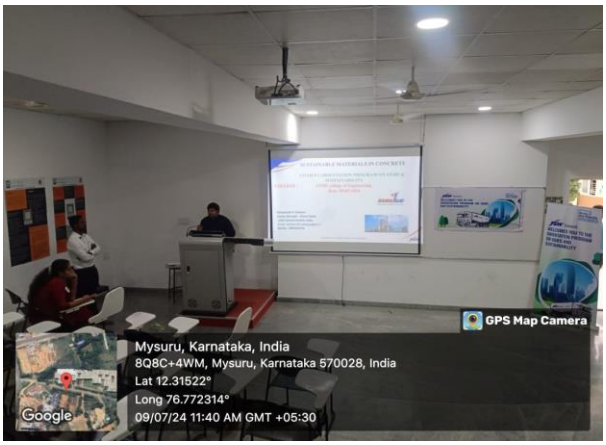

Fig: Welcoming the Resource person

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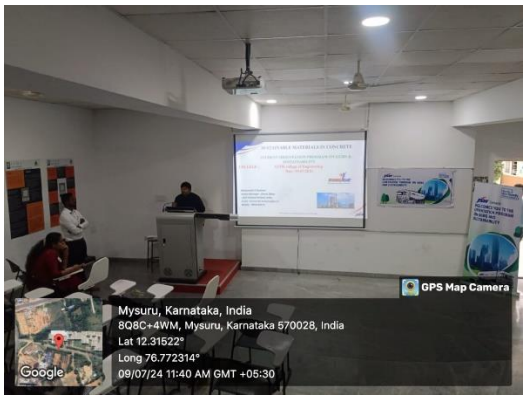

Fig: Explaining and Participation Certificate distribution

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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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