

Name of the faculty: Faculty of Engineering & Technology Name of the event/ programme: Webinar on Green Concrete Type of the programme: Webinar Date: 27 May 2021.

Time: 10:00AM to 11:00AM

Venue: Google meet online mode

Objective of the programme: The main objective behind this WEBINAR is to provide complete knowledge on green concrete. The concrete is the highest used man made material with more than 10 billion cubic tones consumption annually. But the conventional concrete which has its core ingredients as cement, sand, course aggregate and water causes a significant environment pollution in its making

Participants: B.Tech and M.Tech students

Brief Report of the programme: The Department of Civil Engineering, Faculty of Engineering & Technology, organized a Webinar on Green Concrete in association with JK Cement on 27 May 2021.

The concrete is the highest used man made material with more than 10 billion cubic tones consumption annually. But the conventional concrete which has its core ingredients as cement, sand, course aggregate and water causes a significant environment pollution in its making. The cement manufacturing required a lots of energy and emit very high quantity of carbon dioxide resulting third highest Carbon Dioxide emitter and manufacturing/mining of other ingredients like sand, aggregate also cause significant environment pollution. Therefore the conventional concrete making is becoming ecologically unsustainable and it is the need of the hour that we start moving toward the use of Green Concrete.

In simplest term green concrete is one which consume less and produce more or better performance.

Mr. R.K. Jha from JK Cement delivered very informative talk on green concrete, which include its manufacturing, reusability, availability and performance. It is the material that exhibits better functional performance and capabilities than ordinary concrete. The green concrete is considered a maintainable construction material as it consumes less natural resources and less energy and emits a smaller amount carbon dioxide. It also reduces the use of water by almost 20 %. The market for this product is seen emerging in the developing countries.

One of the main plus points of using green concrete is it reduces industry's CO2-emission by 30 %. Green concrete requires less maintenance and repairs. But some of its limitations are it uses stainless steel which leads to cost of reinforcement increases.

He also talk about the acceptability of green concrete by the construction industry and how many developed country are using as high as more than 70% in their construction.



Photographs:

Department of Civil Engineering organized a Webinar" on 27 May 2021



Webinar focused on the Green Concrete availability and performance

| 1 | KUNAL KADYAN |
|----|---------------------|
| 2 | SHIVAM GOYAT |
| 3 | VAIBHAV VATS |
| 4 | VISHAL |
| 5 | GURJOT SINGH |
| 6 | YASHU GAUR |
| 7 | KAPTAN |
| 8 | DEVYANSH DEV PATHAK |
| 9 | NEELAM |
| 10 | ANSHUL |
| 11 | MUSKAN |
| 12 | ARUSHI AGGARWAL |
| 13 | AAKASH |
| 14 | SACHIN |
| 15 | PRAJEET SHARMA |

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