



# Dr. M.G.R.

## EDUCATIONAL AND RESEARCH INSTITUTE

### (Deemed to be University)

Maduravoyal, Chennai - 600 095. Tamilnadu, India.

(An ISO 9001-2015 Certified Institution)



## MGR ASSOCIATION FOR GREAT INNOVATIVE CREATORS

### Department of Civil Engineering

Event Title	Subject lecture on Building materials - II yr		
Objective of Event	The objective of the subject lecture on Building Material was to provide students with a thorough understanding of commonly used construction materials, their properties, classification, manufacturing processes, and applications in civil engineering projects. The lecture		
Chief Guest /Speaker Details	Dr.V.Manjula, Professor, Dr.M G R Educational and Research Institute		
Date	17/12/2025	Time	10.00 AM to 12.00 PM
Venue	CIVIL SMART ROOM	No. of Participants	50

## REPORT

### TITLE

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### CONTENT

A subject lecture on "Building Material" was conducted for Civil Engineering students to enhance their fundamental knowledge of materials used in construction. The session focused on introducing students to the importance of building materials in ensuring the safety, durability, and functionality of structures. The lecture began with an overview of the role of materials in civil engineering and their influence on structural performance and service life. The resource person explained the classification of building materials, including stones, bricks, cement, lime, concrete, steel, timber, and glass. Detailed discussions were carried out on the physical, mechanical, and durability properties of materials such as strength, hardness, toughness, workability, and resistance to environmental effects. The manufacturing processes of key materials like cement and bricks were also described to help students understand quality variations and material behavior. The lecture emphasized the importance of proper material selection based on functional requirements, environmental conditions, and economic considerations. Practical examples from construction sites were shared to demonstrate how improper material selection can lead to defects, failures, and increased maintenance costs. The session also covered basic testing methods and quality control measures adopted to ensure compliance with Indian Standard (IS) codes. In addition, the lecture introduced students to modern and alternative building materials such as fly ash bricks, AAC blocks, and recycled



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construction materials. The advantages of using sustainable and eco-friendly materials were discussed in the context of reducing environmental impact and promoting green construction practices.

An interactive discussion session allowed students to clarify doubts and actively participate in the learning process. The lecture successfully bridged the gap between theory and practice, motivating students to observe and analyze materials used in real construction projects. Overall, the session was informative and beneficial in building a strong foundation in building materials for civil engineering students.



### EVENT OUTCOME

The subject lecture enhanced students' understanding of building materials and their application in habitat engineering. Participants gained practical insights into material selection, sustainability, and construction practices, improving their technical competence, environmental awareness, and readiness for industry-oriented challenges.

### PHOTOS



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Dr. A. Arivumangai