



# 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 Technology and Habitat Engineering- III yr		
Objective of Event	The objective of the subject lecture on Building Material and Habitat Engineering was to provide students with a comprehensive understanding of various building materials, their properties, selection criteria, and applications in habitat development. The		
Chief Guest /Speaker Details	Dr.RA.B.Depaa, Professor and Dy.HoD, Dr.M G R Educational and Research Institute		
Date	11/12/2025	Time	10.00 AM to 12.00 PM
Venue	CIVIL SMART ROOM	No. of Participants	50

## REPORT

### TITLE

BUILDING TECHNOLOGY AND HABITAT ENGINEERING”

### CONTENT

A subject lecture on “Building Material and Habitat Engineering” was conducted for Civil Engineering students with the objective of enhancing their knowledge of construction materials and their role in sustainable habitat development. The lecture focused on introducing students to traditional and modern building materials, their physical and mechanical properties, durability aspects, and suitability for different climatic and structural conditions.

The session began with an overview of habitat engineering and its importance in planning safe, durable, and sustainable living environments. The resource person explained the classification of building materials such as stones, bricks, cement, concrete, steel, timber, and alternative materials. Emphasis was placed on understanding material behavior under various loading and environmental conditions. Real-world examples from residential and commercial buildings were discussed to help students relate theory to practice.

Special attention was given to sustainable and eco-friendly materials, including fly ash bricks, AAC blocks, recycled aggregates, and green construction materials. The lecture highlighted the importance of energy-efficient buildings, cost-effective material selection, and the reduction of environmental impact in modern habitat engineering. Case studies of sustainable housing projects were shared to demonstrate practical implementation.



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The session also covered aspects of material testing, quality control, and standards followed in construction practices. Students were introduced to relevant Indian Standard (IS) codes and quality assurance methods adopted on construction sites. Interactive discussions encouraged students to ask questions regarding material selection, failures in construction, and recent advancements in building technology.

The lecture concluded with a discussion on career opportunities and skill requirements related to building materials, construction management, and sustainable infrastructure development. The session was informative, engaging, and beneficial in strengthening students' foundational knowledge while preparing them for higher studies and professional practice in civil engineering.



### 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

Dr. A. Arivumangai