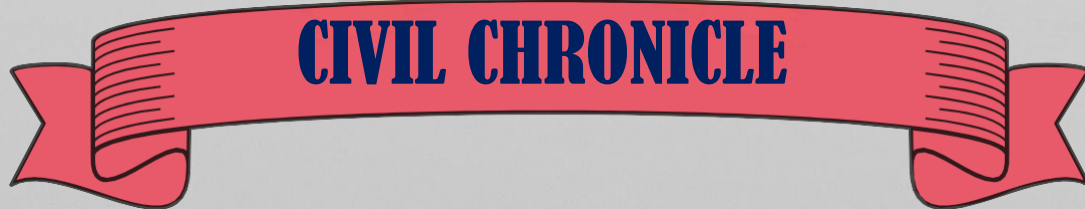
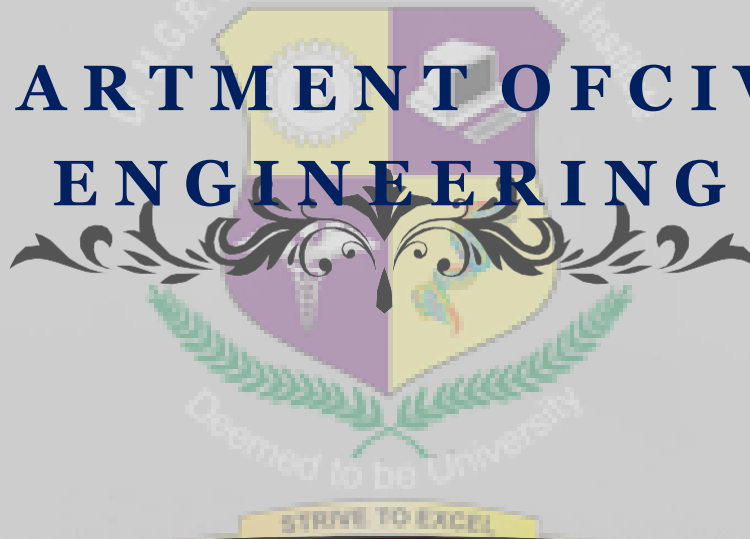




**Dr. M.G.R**  
**EDUCATIONAL AND RESEARCH INSTITUTE**  
(Deemed to be University with Special Autonomy Status )  
Accredited by NAAC with 'A' Grade ( CGPA 3.51 for 4 point scale )  
An ISO Certified Institution



**FACULTY OF ENGINEERING AND  
TECHNOLOGY**  
**DEPARTMENT OF CIVIL  
ENGINEERING**



## Vision

To achieve the pinnacle of success in the area of sustainable constructions and green technologies, thus stimulating economic growth and making the society a better place to live in.

## Mission

To produce graduates who possess technical competence in their chosen specialty area of Civil Engineering with integrity and commitment.

To prepare them to serve and contribute as innovators, professional engineers, and leaders in the global community.

## Program Educational Objectives (PEOs)

The Educational Objectives of the Civil Engineering program are designed to produce skilled Engineers who could effectively contribute to the Civil Engineering profession with an ability to meet its current and future challenges.

To apply fundamental technical knowledge and skills to find creative solutions to technological challenges and problems in various areas of basic sciences and engineering.  
To analyze, design and use skills in order to formulate and solve Civil Engineering problems.

To practice Civil Engineering in a responsible, professional and ethical manner and implement eco- friendly sustainable technologies for the benefit of industry and society.

To create knowledge through research and development in Civil Engineering and allied fields and modernize the teaching levels.

To make students professionally competent by enhancing their communication skills, team spirit, leadership and also to prepare them for lifelong learning through innovative and research activities.

## **Program Outcomes (POs)**

Understanding the fundamentals in the Engineering field  
Creation of an ability to develop problem solving attitude

Designing, implementing the current technology and performing and conducting experiments by changing the parameters and interpreting the results

Development of the environmental knowledge through innovative ideas by using current technology

Facing the problem in the society and solving them

An ability to understand the environmental impact and sustain in the environment

Understanding legal, security and social issues and responsibilities  
Working in team thereby exploring multidisciplinary talents

Communicating effectively in the societal activity such as public speaking, in conference etc.

Developing interest in the individual to have an open mind to learn and accept things in the entire life

Applying the software skills, managerial skills, for the industrial issues and also an ability to manage the finance

## **Program Specific Outcomes (PSO)**

The Specific objectives of the Civil Engineering program are designed to produce skilled engineers who could effectively contribute to the Civil Engineering profession with an ability to meet its current and future challenges. The Civil Engineering department is committed to produce Civil Engineers with the potential:

To apply fundamental technical knowledge and skills to find creative technological solutions

To function as an individual or in a team to find solutions for civil engineering problems of multi disciplinary nature in the context of environmental and sustainable development



## FROM THE HOD'S DESK



I am pleased to know that our Civil Engineering Department is once again successful in bringing Q1 issue of News letter “CIVIL CHRONICLE” for the year 2021.

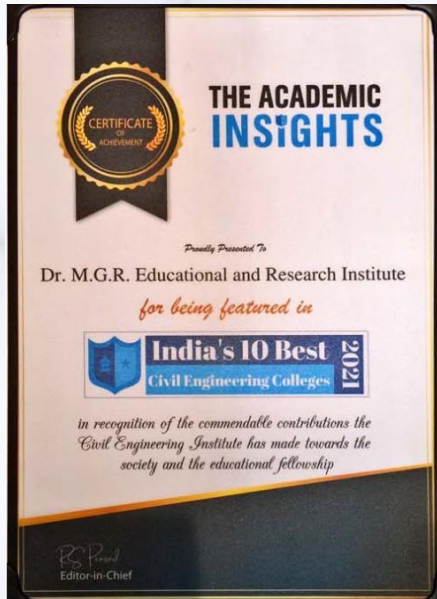
A Technical Magazine such as this is required for growth and progress of departmental activities, including publishing articles, papers, research activities etc. I am sure that this type of publishing technical magazine will prove its mettle by providing an opportunity for bringing out the writing talent which bears immense potentiality of sharpening Students' communication skill as part of their overall personality development and also will direct their creativity to new dimensions of mature expression.

I congratulate all the contributors and the editorial board for bringing out such a News letter.

**DR.T.KAVITHA**



## ACHIEVEMENT OF THE YEAR




Civil Engineering Department has been selected one of the best department among top ten private Engineering institutions in India during the year 2021. The award has been solemnized by The Academic insights, Bengaluru. At this moment, on behalf of the department, we are happy to thank Our Honorable Chairman, Honorable President, Vice Chancellor, Pro-vost, Rector, Pro-vice chancellor and all Executives, Deans and our department faculty members and non teaching staff for their support to make this great achievement.

- On **RISK SAFETY MANAGEMENT IN METRO RAIL CONSTRUCTIONS** Online Virtual Platform  
at 6.15 pm on 23rd January 2021

- ## RESEARCH AND INNOVATIONS

## PUBLICATIONS

## BOOK PUBLICATIONS



**uLektz**

# Fluid Mechanics and Machinery

Subject Code: CE6451  
ISBN Number: 9788195377121

Authorized by:  
Dr. Arivumangai

**Fluid Mechanics and Machinery**

**Publisher :**  
uLektz Learning Solutions Private Limited

**Course Code :**  
CE6451

**Author :**  
Dr. Arivumangai

## JOURNAL PUBLICATIONS

Materials Today: Proceedings 41 (2021) 100529-100539

Contents lists available at ScienceDirect

Materials Today: Proceedings

journal homepage: [www.elsevier.com/locate/matpr](http://www.elsevier.com/locate/matpr)

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## 1. Introduction

Types of various composite materials having structural or natural materials with the inclusion of an inorganic or organic matrix have been applied based on the evidence through numerous scientific studies. On the other hand, self-healing materials have been used as a major input in

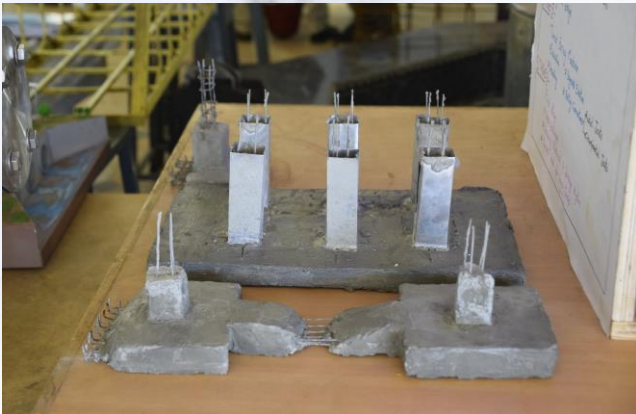




STUDENTS MODEL MAKING









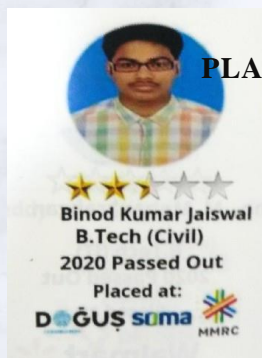


# PLACEMENTS



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