

CIVIL-Q2-27/05/2023

JAN-JUN 2023



Dr. M.G.R

EDUCATIONAL AND RESEARCH INSTITUTE

(Deemed to be University with Special Autonomy Status)

Accredited by NAAC with 'A' Grade (CGPA 5.51 for 4 point scale)

An ISO Certified Institution



**FACULTY OF ENGINEERING AND
TECHNOLOGY**

**DEPARTMENT OF CIVIL
ENGINEERING**





VISION

To foster competent Civil engineers for the development of sustainable built environment



MISSION

M 1

Equip students in contemporary Civil Engineering domains

M 2

Impart practical training to meet the industrial requirements and to inculcate research competency

M 3

Provide adequate skills to become successful entrepreneurs



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO :1

Analyze Civil Engineering problems and design appropriate solutions as per standards

PEO :2

Practice as a Civil Engineer towards creating a sustainable society

PEO :3

Enhance quality of entrepreneurship through software, communication and managerial skills



PROGRAM OUTCOME (POs)

PO1

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.



PO2

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



PO3

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.





PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1

Capacity to manage civil engineering projects with technical knowledge and professional skills



PSO 2

Graduates will be able to work effectively as an individual or in a team with good leadership skills in multidisciplinary environments to meet sustainability goals



P01

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.



P02

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



P03

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.



P04

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.



P05

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.



P06

The Engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.



P07

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



P08

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.



P09

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



P010

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



P011

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.



P012

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



FROM THE HOD'S DESK



“

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

A Technical Newsletter 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 newsletter 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



ISR EVENT REPORT

ROOFTOP RAINWATER HARVESTING



WORLD WATER DAY
22 MARCH

ON THE OCCASION OF **WORLD WATER DAY**

DATE
22.03.23

TIME
10.30 AM

VENUE
MOGAPPAIR

Organized by
DEPARTMENT OF CIVIL ENGINEERING
for the General Public



INAUGURATION BY

-  **Dr. C. B. Palanivelu**
Registrar
-  **Dr. Kalidoss**
Senior Additional Registrar
-  **Dr. G. Gopalakrishnan**
Provost
-  **Dr. P. S. Rajakumar**
Dean Activities
-  **Dr. T. Kavitha**
HOD – Civil Engineering
-  **Dr. RA. B. Depaa**
Deputy HOD – Civil Engineering

ABOUT THE EVENT

Mr. D. Ramakrishna, Assistant Professor and Event Organizer along with **Dr. M. Narmatha**, Professor and students of Civil Engineering visited various houses and areas in Mogappair and explained the importance of rooftop rainwater harvesting to the residents, police officers, traffic police, and general public with the help of pamphlets and flyers.



HIGHLIGHTS OF THE EVENT



Created Awareness on the importance of Rainwater Harvesting



Visited Houses, Shops, Institutions and Public Places in Mogappair



Interacted with Residents, Police Officers, Traffic Police & Public



Distributed Pamphlets and Flyers



Promoted Water Conservation for a Sustainable Future

*“ Harvest Today...
Secure Tomorrow! ”*



SAVE WATER • SAVE LIFE • BUILD A BETTER TOMORROW





METROPOLITAN CIVIL ENGINEERS ASSOCIATION MEETING

29TH APRIL 2023

7.00 PM

VIJAY PARK, ARUMBAKKAM



Uniting Professionals • Sharing Knowledge • Building Tomorrow

The Metropolitan Civil Engineers Association conducted its periodic meeting on 29th April 2023 at 7.00 PM, held at Vijay Park, Arumbakkam. The meeting served as a platform for civil engineering professionals to discuss current developments, share knowledge, and strengthen professional networking within the metropolitan region.



FROM OUR DEPARTMENT OF CIVIL ENGINEERING



Mr. Arivalagan Sir



Myself



Mr. Kumaran Sir

attended the meeting and **actively participated** in the discussions and deliberations held during the session.



At the conclusion of the meeting, our department **brochures** highlighting the academic programs, research activities, and achievements of the Department of Civil Engineering **were distributed** to all the participants.



This initiative helped in **promoting the department's visibility** among practicing civil engineers and fostering stronger industry-academia connections.



UNITING PROFESSIONALS • SHARING KNOWLEDGE • BUILDING TOMORROW

Together We Engineer Better Communities



AWARENESS PROGRAM ON UN SUSTAINABLE DEVELOPMENT GOALS AT CSI PRIMARY SCHOOL, REDHILLS

DATE : 03.04.2023 | VENUE : CSI PRIMARY SCHOOL, REDHILLS | BENEFICIARIES : SCHOOL STUDENTS

An awareness program on UN Sustainable Development Goals (SDGs) was conducted at CSI Primary School, Redhills, on 03.04.2023. Dr. L. Ramesh and Dr. V. Priyadarshini, Assistant Professors, Department of Civil Engineering (one of the Ensav Club Coordinators) educated students on the importance of SDGs and environmental sustainability.



- ### PROGRAM HIGHLIGHTS
- ✓ Introduced the concept of UN Sustainable Development Goals (SDGs) to school students.
 - ✓ Explained the significance of environmental sustainability and responsible living.
 - ✓ Encouraged students to contribute towards a better and sustainable future.



RESOURCE PERSONS



Dr. L. Ramesh
Dean EPA
Department of EEE
Department of EEE



Dr. V. Priyadarshini
Assistant Professor
Department of Civil Engineering
(Ensav Club Coordinator)

KEY TAKEAWAYS FOR STUDENTS

-  The world is facing many challenges that require collective action.
-  Small actions today can lead to a sustainable tomorrow.
-  Every individual has a role to play in achieving the SDGs.





Guest Lecture on “Project Management”

Dr.M.G.R.
Educational and Research Institute
(DEEMED TO BE UNIVERSITY)
(An ISO Certified Institution)
University with Graded Autonomy Status
Maduravoyal, Chennai - 600 095

DEPARTMENT OF CIVIL ENGINEERING
WELCOMES YOU
FOR THE GUEST LECTURE
ON
"PROJECT MANAGEMENT"

Venue: SMART ROOM

20th January
2023

11:00AM-
12:30PM

Mrs.T.Aruna,M.Arch
Dharashaw and Co Private Limited
Company - Mumbai,
Project Office at
Puducherry

Mrs. Bini Mylin
Organising Secretary

Mrs.A.Hemamalini
Dr.Gomathi Nagajothi.P
Association Conveners

Dr. T. Kavitha
Dept. Head



Guest Lecture on “Project Management” on 20th January 2023 between 11:00AM to 12:30 PM for the Civil Engineering students.

The Speaker of this session Ms. T. Aruna Team Leader and Urban Management Expert, Puducherry gave a very commendable lecture on the different stages of project management and Town Planning.

The students were encouraged to enter into the field of town planning and to take up Government opportunities in these sectors.

The students actively participated in this program with lot of interaction and involvement.

EVENTS

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DEPARTMENT OF CIVIL ENGINEERING
 (ASSOCIATION OF CIVIL ENGINEERS)
 PROUDLY PRESENTS

TECHNICAL EVENTS

- PITCH PRESENTATION
- CADD CONTEST
- QUIZ CONTEST
- DRAWING - GREEN BUILDING

NON-TECHNICAL EVENTS

- MUSICAL CHAIR
- BALLOON FUN
- DUMB CHARADES
- TREASURE HUNT
- PS4 (FIFA)

AAKRITI '23'
 A NATIONAL LEVEL TECHNICAL SYMPOSIUM
 "Green Energy"
 On
SEPTEMBER 22nd 2023

STUDENT CO-ORDINATORS

- Nooruz Zoha - 7546872974
- Siranjeevee S - 9790749600
- Dhanush Raj N - 8778570858
- MD Fahimuddin - 7079988156

STAFF CO-ORDINATORS

- Dr.M.NARMATHA-7708425196
- Er.A. HEMAMALINIE-7845573601

For Registration

QR Code

aakriti.civildepartment@gmail.com

SOCIAL MEDIA:

- Twitter: MGR CIVIL DEPT, AAKRITI_CIVIL
- Instagram: MGR CIVIL DEPT, AAKRITI_CIVIL
- Facebook: DRMGR CIVIL DEPT, AAKRITI CIVIL
- LinkedIn: DRMGRER CIVIL DEPARTMENT

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DEPARTMENT OF CIVIL ENGINEERING
 (ASSOCIATION OF CIVIL ENGINEERS)

Organized

AAKRITI '23'
 A NATIONAL LEVEL TECHNICAL SYMPOSIUM
 On
 "Green Energy"

Mr. PABBA RAMESH
 Sr.Faculty - ACE Engineering Academy

STUDENT CO-ORDINATORS

- Nooruz Zoha
- Siranjeevee S
- Dhanush Raj N
- MD Fahimuddin

STAFF CO-ORDINATORS

- Dr.M.NARMATHA-7708425196
- Er.A. HEMAMALINIE-7845573601
- civil2events@gmail.com

SOCIAL MEDIA:

- Twitter: MGRCivilDept, aakriti civil
- Instagram: mgrcivildept, aakriti civil
- Facebook: DrMgr Civil Dept, Aakriti civil
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GUEST LECTURE



**Department of Civil Engineering organized
an Inter-Disciplinary Lecture Titled
“How to Develop App for Entrepreneurs”
on 23rd February 2023 @ 10.00 am**



Industry Institute Planning Cell in association with department of Civil Engineering organised an Industrial Visit in Casagrande construction site at Manapakam on 19.4.23 for Civil Engineering students.

Students gained practical knowledge of reinforcement detailing of column, beams and slabs. They also learnt the new plastering techniques with gypsum.

The engineers from the site explained in detail about foundation of the that four-storey structure and the execution patterns and planning schedule of the project.

SUSTAINABLE CONSTRUCTION PRACTICES



Sustainable construction has become an essential aspect of modern **Civil Engineering**. It focuses on designing and constructing infrastructure while minimizing environmental impacts and maximizing resource efficiency.



Green buildings, energy-efficient materials, rainwater harvesting systems, and waste management techniques are widely adopted to promote sustainable development.



RAINWATER HARVESTING



Civil engineers play a crucial role in creating environmentally responsible infrastructure that supports economic growth while preserving natural resources.



ECO-FRIENDLY MATERIALS



WASTE MANAGEMENT



The adoption of sustainable practices not only **reduces construction costs** in the long term but also improves the **quality of life** for future generations.



“Building sustainably today ensures a greener tomorrow.”

JETILO KEZUN
201051101620





NEWSLETTER

STUDENT COORDINATORS



Rahul Rajpirohit
B.Tech / V Sem



Anish
B.Tech / VII Sem



CHIEF EDITORS – STAFF INCHARGE



Dr.R.SUDHAKAR [Deputy Dean]



Dr.RA.B.DEPA [Deputy Hod]



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Department of Civil Engineering