

TMEP



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2023 - 2024(even)
CIRCULAR

DATE: 07.03.2024


This is to inform our department faculty that there will be an internal staff seminar. The details of the staff seminar are given below.

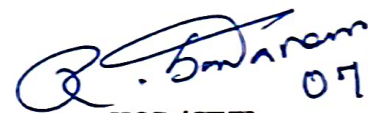
Name of the faculty : Mr.A.SAGAYA ALBERT

Date : 08.03.2024

Venue : Smart classroom (Hall no 236)

Time : 12:30 PM


DRC MEMBER 07/03/2024


HOD/CIVIL 07/03/2024.

DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2023-2024/EVEN SEMESTER
INTERNAL STAFF SEMINAR - REPORT

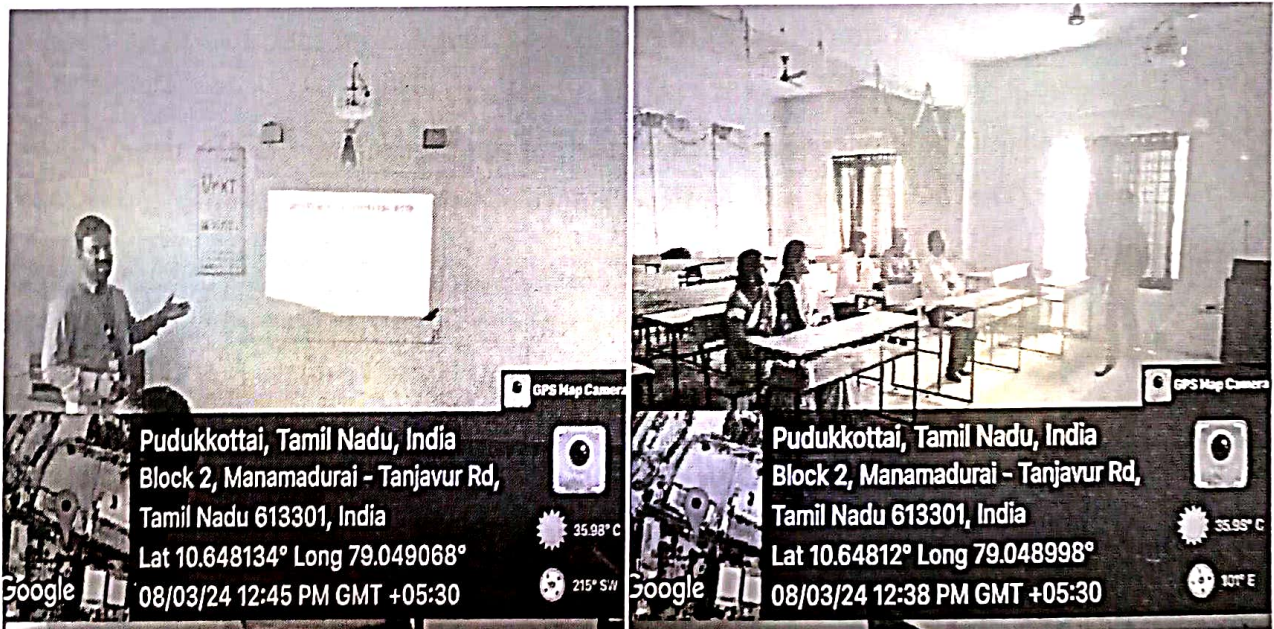
08/03/2024

Background & Objective

Department of Civil Engineering had organized an Internal Seminar for the Department staff members for accessing online journals. The purpose of this seminar is to equip the faculty in new techniques through accessing online journals like MAT, Springer etc.

Seminar Session

This Seminar session was held at the Department of Civil Engineering on 08th March, 2024 at 12:30pm. Mr. SAGAYA ALBERT A, AP/CIVIL was delivered his seminar talk on Cellular concrete: Utilization of plastic and glass waste as a replacement of fine aggregate. The paper was referred from Construction and Building Materials, Volume 200 Pages 637-647.



Internal Seminar Session by Mr. SAGAYA ALBERT AP/CIVIL

Theme:

This article presents a complete review with the main aspects that influence the application of cellular concrete: raw materials, production methods and expected properties based on density. This paper aims at identifying the possibility of using recycled materials such as crushed glass and plastic wastes in foam concrete as substitute filler material for fine river sand. A protein based foaming agent was adopted for this study. In this research study foam concrete blocks were prepared according to the designed proportions to attain the maximum density of 1900kg/m^3 . In this project, the mixing of recycled glass wastes 5%, 10%, 15% and recycled plastic wastes 1%, 3% & 5% were added as a filler in foam concrete. The 7, 14 and 28 days compressive strength, flexural strength, split tensile strength of each batch of concrete were studied and compared with conventional foam concrete. The study showed that the incorporation of recycled glass and plastic waste in conventional foam concrete is effective and it will be useful for load bearing wall applications.

Scope for future work:

- ❖ In this study, the concept of foam concrete has been studied. The fabrication technique of foam concrete has been studied.
- ❖ The physical and mechanical properties, advantages, application of foam concrete has been studied.
- ❖ The density value decreased with increasing the percentage of PET content. The decreasing ratio of density is close to 14% especially at 10% of PET.

Outcome:

- ❖ From this study, the compressive strength and durability of foam concrete increases with the age. But the compressive strength of this concrete mixes (i.e. CFPG-1, CFPG-2 & CFPG-3) was 41 to 44% lower than conventional concrete at 28 days.
- ❖ The tensile strength and flexural strength of this concrete mixes increases with age.
- ❖ Finally, staff members shared their views regarding the seminar and gave their valuable feedback.


B. Narasimha
08/03/2024
HOD/CIVIL


J. M. Srinivas
8/3/2024
PRINCIPAL



KINGS

COLLEGE OF ENGINEERING
An Autonomous Institution

Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi



DEPARTMENT OF CIVIL ENGINEERING

INTERNAL STAFF SEMINAR - ATTENDANCE AND FEED BACK

S.NO	NAME	FEEDBACK	SIGN
1	Dr.R.Saravanan	Excellent Presentation.	R. Saravanan 08/03/24.
2	Mr. R.Sundharam	Informative and Innovative lesson	R. Sundharam 08/03/24.
3	Mr.K.Arun	Much needed topic with excellent presentation	K. Arun 08/03/24.
4	Mr. D.Nandha Kumar	Excellent Presentation.	D. Nandha Kumar 08/03/24.
5	Mrs.A.Suganya	useful presentation	A. Suganya 08/03/24.
6	Mr. A .Sri Ram Gopal	Nice communication, Topic is innovative	A. Sri Ram Gopal 08/03/24.
7	Mrs.K.Kanimozhi.	Excellent presentation with innovative topic.	K. Kanimozhi 08/03/24.