FEATURING:

Students' Section

Faculty Contribution

Green Diwali

CIVIL ENGG NEWSLETTER

Edition of Sept./Oct. 2019





STUDENTS' SECTION Participation, Achievements and much more..



FACULTY CONTRIBUTION Papers, events organized, MOOC courses.

GREEN DIVALI

An exclusive look at this unique event which signifies the word "sustainable"





COCENA - TALENT QUIZ COMPETITION 2019

4th Year Civil Engg students Mr. M . Sadhasivam and M s. C.U. Lavanya have won first prize in Talent search quiz competition 2019 organized by Coimbatore Civil Engineers Association (COCENA) held on 13/09/2019.

This is the second consecutive time our college has won this quiz competition following the brilliance of Mr. T. Moun karthick and Mr. S Krishna kumar last year.

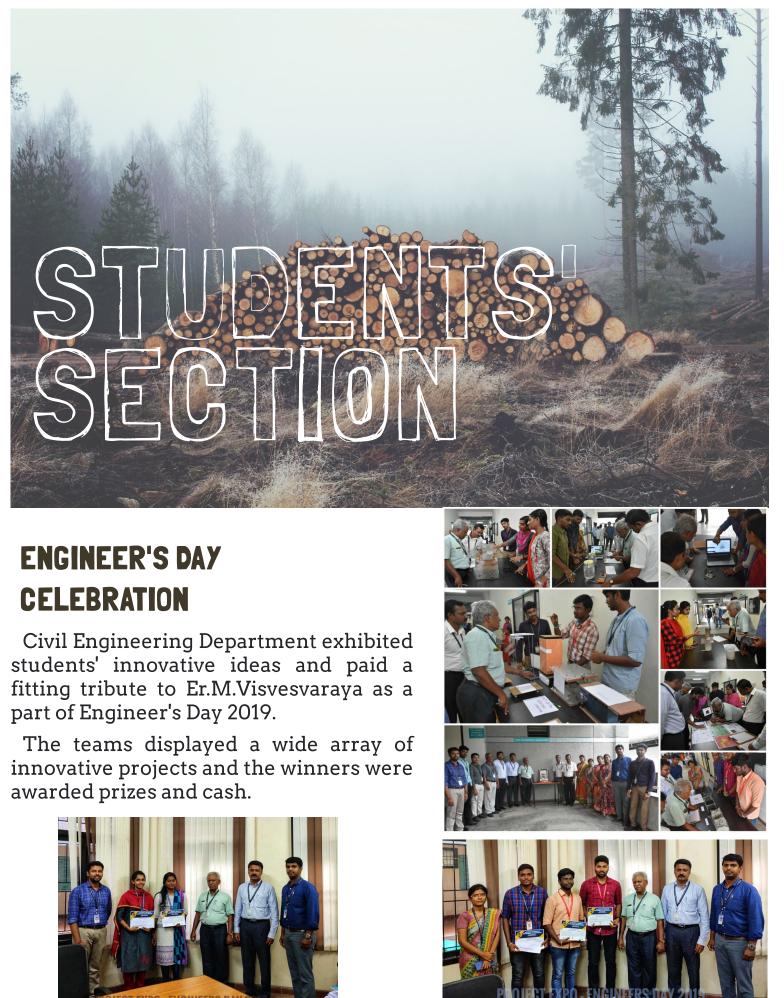


SKCET- CHESS ZONALS 2019

Our SKCET chess team won third place in Zonal level Chess competition 2019 held at SKCET on 05/09/2019.

One among the victorious team was our 2nd year civil student Ms. Arundhathi.



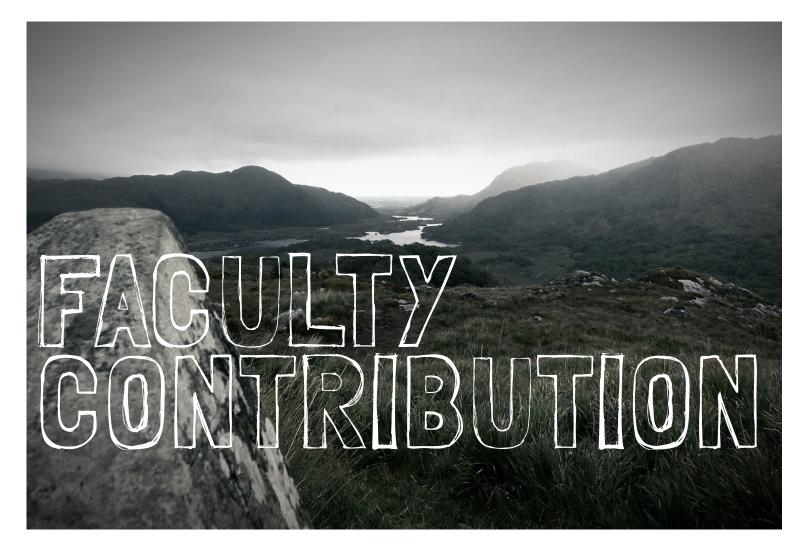




EMICA2K19

3rd Year Civil Engineering students Mr. R. Shankar and Mr. S. Santhosh bagged the first prize in "Technical quiz" in the national level technical symposium 2K19 held EMICA at College Tamilnadu of Engineering. The same team won third prize in "Paper presentation" and second "Technical prize in Connection".





IIC DEBATE

As part of а Institution Innovation Cell (IIC) celebrations, Civil Engg Department organized a debate on "Innovation, an epitome of evolution and prosperity" and students from various years participated in the debate.





Date: 27.09.201

RI KRISHNA COLEGE OF ENGINEERING ANI TECHNOLOGY

Debate on the topic

Innovation an epitome of evolution and prosperity"

> Coordinators number: 848966795



FAGULIF CONTRIBUTION

VIGILANCE AWARENESS WEEK

On behalf of Civil Engineering Association, a guest lecture has been arranged on the topic of "Integrity-a way of life" was given by Mr. C. Rajesh, Deputy superintendent of Police, Coimbatore as a part of Vigilance Awareness Week 2019

He addressed the students about the meaning of Vigilance and Anti-corruption, ill effects of corruption, corruption index and ways to reduce corruption.



FACULTY PUBLICATION

Mr. S. Prabhath Ranjan Kumar and Mr. R.Vighnesh & M s. S. Maiyuri published a paper "Self Healing of mirco cracks in linings of irrigation canal using coir fibre reinforced bio-concrete" in International Journal of Innovative Technology and Explor ing Engineer ing (IJITEE). It is available online for download in the journal website.



International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-11, September 2019

Self Healing of Microcracks in linings of Irrigation Canal Using Coir Fibre Reinforced Bio-Concrete

S. Prabhath Ranjan Kumar, R. Vighnesh, G. Karthikeyan, S. Maiyuri

Abstract— Development of cracks in the concrete leads to miligation of the strength and darability of the concrete structures. This paper deals with the application of soft-healing concrete for an integration cannot be village near Ecode. The softhealing of descrete is a structure of the soft structures in the software of the software of the software of the software there, the compression stand and regulation can which has been used by the farmers for agricultural purpose over a century was inderwith the software in the software in the software evaporation and infiltration of water into the soft the ecode impreving and there software in the soft the constrat the properties of the fibre reinforced biocencore was evaluated by conducting focural and compression tests along with study of amount of crack-healing in concrete with and without the use of

Keywords: Bacillus Megaterium MTCC 3353, Compressi Strength, Flexural Strength, Alkaliphilic, XRD.

I. INTRODUCTION

Concrete is an essential component of construction materials used in most of the buildings. Also Concrete is a material which possesses micro-cacks within its matrix due to a variety of reasons, one being shrinkage. This creates an opportunity for the hostile materials gases tog othrough its pore structure and severely dent its durability. In order to endue such an access, bio concrete may perhaps be used as one of the solution. It is a unique category of concrete in which the calcibe precipitation patternia is used along with the typical ingredients of concrete. Calcife precipitation will augment the density of concrete, thereby increasing the strength in addition to the durability of concrete. Due to microbial activities of the bacteria, microbiologically induced calcite precipitation (MICP), a highly impermeable calcite layer is formed which increases the performance of concrete structures. This microbial concrete presents a potentially enormous lengthening in service-life of infrastructure, substantially reducing the maintennec costs

Revised Manuscript Received on September 2, 201

S. Prabhath Ranjan Kumar, Assistant professor Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India. (E-mail: prabathranismumsr/amail.com)

R. Vighnesh, Assistant Professor, Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India.

[C. Karthikeyan, UG Student, Department of Civil Engineering, Amirta school of Engineering, Amirta Vishwa Vidhyapeedham, Coimbatore, Tamil Nadu, India.

(E-mail: CleTsO31@ginan(Com) S. Maiyuri, UG Student, Department of Civil Engineering. Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India (E-mail: maiyuniskannan067@gmail.com) and also considerably increases the safety of structures. The Bacterial Concrete can be made by embedding bacteria into the concrete that are able to constantly precipitate calcite This phenomenon is called Microbiologically Induced Calcite Devicinition OMICON

The study is conducted on investigation of the usage of two component bic chemical healing agent which involved impregnation of clay pelles with calcium lactate and microorganisms under vocuum. The oxygen measurements within the concrete showed that the bacteria remain feasible and functional for several months. The bic concrete healed a crack of 0.46 mm width in comparison to 0.18 mm autogenously healing of normal concrete. [5]. The species). The results showed an enhancement in the compression strength and reduction in water permeability of self-healing concrete when compared to that of the typical concrete [6]. Various tests conducted on concrete mixed with different bacterial tains (4 types of bacillus species) to check its capacity to improve compression strength as well as head the carck efficiently. [8]. The examination on the ability of the bacteria to sty alive at elevated temperatures showed that the bacteria, extracted from soil sustained up to 90°C. The maximum temperature recorded inside concrete was 70°C. [10]

This study emphasizes on the self-healing concrete which can be preferred in construction of the liming of the canal. This special concrete has the capacity of healing cracks up to width of 0.4 mm which prevents the loss of water from the canal. This healing capacity of the concrete is provided by the Bacillus Megaterium. The bacterial concrete must be cured in a separate curing medium which contain calcium chloride and urea mixed in normal water to improve the calcite precipitation of bacteria.

II. MATERIALS AND METHODOLOGY

A. Materials

1. Cement

Ordinary Pozzolano Cement (OPC) of 53 Grade conforming to IS: 12260-1987 was used throughout the project. Cement was stored in air tight bags to prevent lumping due to the presence of moisture. The preliminary tests of cement were performed and results were obtained to



Blue Eyes Intellig & Sciences Public

KROWLEDG TRANSFER

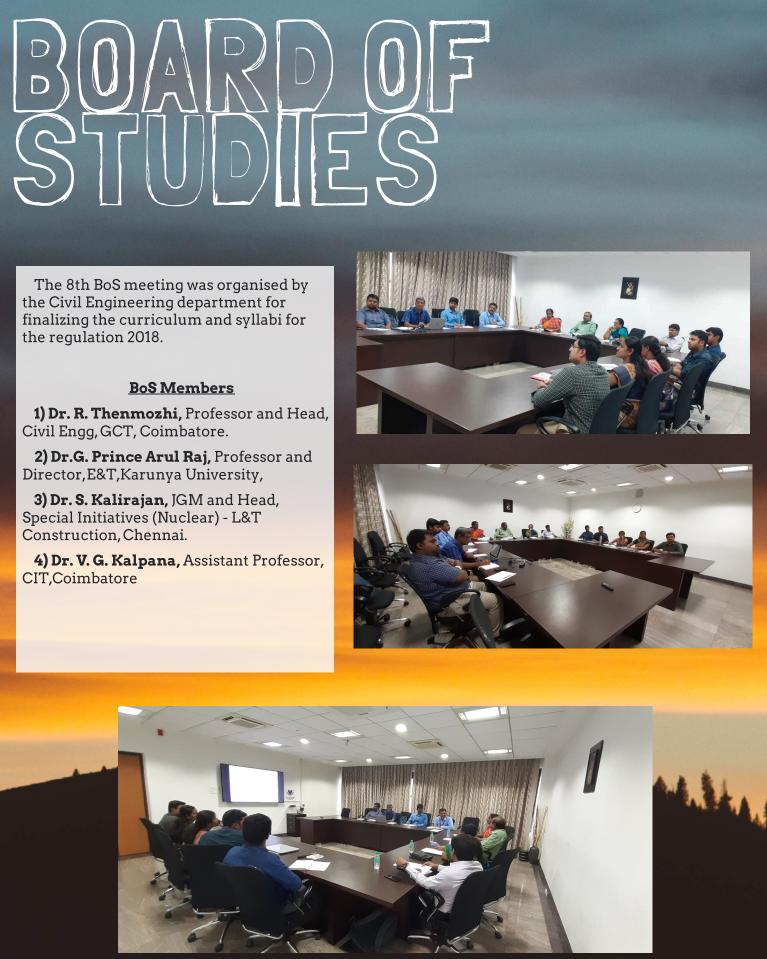
BIM WORKSHOP

Final Year Civil engineering students gave a session on "Intro to REVIT architecture" to their second year juniors. REVIT and it's BIM application was a part of the subject "ACAP", handled by Prof. A. Jesudass. This session proved to be a platform for knowledge transfer.

Appreciation must be given to the following final year students for this session.

Mr.C. Mukesh M r. V. Prabhakaran M r. N. Sarath kumar













GREENDWAL



SKCET Civil Engineering department "Green Diwali" Celebrations at Government Primary school, Panapalli, Coimbatore.

- The various events which were organized were
- 1. Awareness of "Green Diwali"
- 2. Awareness of rainwater harvesting.
- 3. Awareness of zero plastic
- 4.Conducting games and proving lunch for children.
- 5. Distribution of prizes

"To serve the people who are in need, within our limits" has been the single point agenda of EAGAI - Social Club. We have been celebrating green diwali with the support of t he college, department, students and intra departmental clubs like CESA studio -Photography club, Manvaasam - Eco green club. This event has been organised for the past three years in places like Dhumanur, Kondanur and Panapalli government schools located near Anaikatti, Coimbatore. The various events we conduct in green diwali are mainly to provide awareness of using crackers and giving them knowledge of celebrating the "Festival of lights" in an environmentally friendly manner. The activities are providing lunch for the children, conducting games, cultural dance, singing and finally awareness of zero plastic." - PRABHATH RANJAN KUMAR FACULTY COORDINATOR - EAGAI











BE WHO YOU ARE CREATED TO BE AND YOU WILL SET THE WORLD ON









SKCET-Inanintha Karangal celebrate 'Green Deepavali' at Anaikatti tribal village

About 50 students and students to refrain from School, Coimbatore, Oct 23: In a joint effort, faculty members took bursting crackers to participated in variou engineering part at the event which protect the environment events conducted a civil students of Sri Krishna included Green Diwali, and safeguarding birds. Panapalli Village. , மதிப்பீர 9 இல் சுந்





#News | THE COVAI MAIL | www.covaimail.com Green Diwali celebrated with tribais



tudents of the department of civil Dengineering of Sri Krishna College of Engineering and Technology celebrated 'Green Diwali' among tribal school children and tribal people at Panapalli village near Anaikatti. Social club 'Eagai', eco club 'Manvaasam', CESA Studio and the NGO Inaintha Karangal were part of the celebrations. Around 50 students and faculty nembers conducted various events, such as awareness sessions on

harvesting, air pollution, plastic pollution, a tree plantation drive, games for teachers and students and tribal dance. The event witnessed the Diwali celebration without firing crackers and also asked public and students to avoid crackers to protect the environment by reducing pollution. Prizes were distributed for winners of each

event. Joshua from Inaintha Karangal, principal of the college J Janet, head of the department of civil thachalam were also

October 14 to 18. The programme sought to give a holistic understanding on statistical and data science and its applications using Python platform. G Barani, associate professor, welcomed the gathering. Rupa Gunaseelan, professor and director incharge. RSMED, delivered the presiden address where she spoke about the importance of machine-learning techniques. The trainer, data scientist Kanchan Bhownik, delivered the

MEDIA FRENZY

Panapal





harathiar School of Manag Dand Entrepreneur Development (BSMED), Bharathiar University, along with 'Makeintern & Echoes', an event of IIM Kozhikode, organised a five-day orkshop on Business Analytics from inaugural address. He spoke about the

Tribal village celebrates green Diwali

Express Features

he students of Sri Krishna College of Engineering and Technology, along with the social club Eagai, eco-green club Manvaasam and NGO Inaintha Karangal celebrated a green Diwali with tribal schoolchildren and people at Panapalli near Anaikatti recently.

Nearly 50 students and faculty members conducted various events in the village following the theme of celebrating a green Diwali. Awareness camps on rainwater harvesting, air pollution and the evils of plastic pollution, a tree plantation drive, games for teachers and students, and a tribal dance show were conducted.

The event witnessed a celebration without bursting crack- took part in the programme.



Nearly 50 students and faculty members conducted various events in Panapalli village

ers. The public was informed of the ill-effects of firecrackers on the environment and local fauna like birds.

Prizes were distributed for the winners of each event. Nearly 30 students from classes 1 to 5 from Government Primary School, Panapalli participated in various events. J Janet, principal of the school, and head of the Department of Civil Engineering, Sri Krishna College of Engineering and Technology, D Maruthachalam



ஆனைகட்டியில் பசுமை தீபாவளி

பெ.நா.பாளையம், அக். 18-ஆனைகட்டியில், இயற் கையை காக்க வலியறுக்கி. பழங்குடியின மக்களின் குழந்தைகள் பட்டாசு வெடிக்காமல், பசுமை தீபாவளியை கொண்டா டினர்.

ஆனைகட்டி வட்டாரத் தல், 22க்கும் மேற்பட்ட மலை கிராமங்கள் உள்

ளன. இங்குள்ள பனப்பள்ளி மலைக் கிராமத்தல் வசன கும் பழங்குடியின்னர் குருங்கிணைந்து, பட்டாச ஒருங்கிணைந்து, பட்டாச இல்லாத பசுமை தீபாவ பசுமை தீபாவளியை கொண்டாடினர். மலைக் திராமக்கில் வசிக்

தப்பட்டு இருந்தது. சமூக ஆர்வலர் விழாவில், 'பனப் ஜோஸ்வா கூறுகையில், பள்ளி மலைக்கிராமம் ''மலை கிராமத்தில் உள்ள

ஆர்வலர்

மலை மற்றும் மலை குழந்தைகளுக்கு குறிப் கலந்து கொண்டனர்.

தொக்கணைதே புக்கால் இல்லாத பசுமை தீபாவ இல்லாத பசுமை தீபாவ விஸ், இரஷ்ணா இன்ற வியரிங் கல்லூரி சிவில் துறை மாணவர்கள் கொண் பாடினர். இலில், பங்கேற்ற குழத் கவும் வைக்க வேண்டும் பாடினர். இலில், பங்கேற்ற குழத் கவும் வைக்க வேண்டும் பாதகாக்கும் உணர்வை தைகளுக்கு, விணான என, எல்லூரி மாணவர் வளர்க்க வேண்டும் காகிதங்களால் தயாரிக் கள் பழங்குடியின குழத் என்ற தோக்கில், ஆண்டு கப்பட்ட பென்லில்கள் பக்கத் பின் வில்கன் பக்கத் பின் குற்பகுக்கு விழிப்புணர்வு வுற்தில், ரப்பகுக்கு பித கப்பட்ட பென்லில்கள் பக்கத்தில் ரப்பருக்கு பித தீப்பாவி தைகளுக்கு வருகின்றனர், வருகிகுற்னர், வல்லூரி மானவர் பிக்கத் பின் காற்புக்கு பித கப்பட்ட விரைகள் பொருக் வர்கு வருகின்றனர், வருக்குற்னர், வர்கம் வருகின்றனர், வருகின்றனர், வருகின்றனர், வருகின்றனர், வருகின்னை குழக்கதகை கட்டவி குருக்குன்ன வர்கப்பட்டன. குற்கு, கல்லூரி சிவில் கருஷ்ணா வருகின்னை குற்குற்கு, கல்லூரி சிவில் கருஷ்ணா வருகின்றனர், வருகின்னை குற்குத்து. கருவின்னா வர்குக்கள் போருக்கு பில குற்குன்னை குற்குற், கல்லூரி சிவில்

இன்ஜி., கல்லூரி சிவில் யை சேர்ந்த, 50க்கும் ட்ட மாணவர்கள் துறையை மேற்பட்ட







STAR FACULTY AWARDS

Best Faculty Dr. P. Saravanakumar

Contributor to the department Mr. M. R. Ezhil Kumar

Special Contribution Mr. S. Prabhath Ranjan Kumar, Mr. S. Sadheesh and

Mr. V. Yogeshwaran.

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