

CIVIL ENGINEERING NEWSLETTER

AADHARA

EDITION OF NOV/DEC 2021

FEATURES:

STUDENTS' SECTION
FACULTY CONTRIBUTION
OSCs

VISION AND MISSION OF THE DEPARTMENT

VISION

To be a centre of excellence in Civil Engineering Education through full-fledged Learning experience along with research.

MISSION

To accomplish our vision, we are committed to excel in Civil Engineering Education by providing,

- Faculty experts from all specialization of Civil Engineering to facilitate teaching learning process
- Excellent infrastructure facilities to apply Civil Engineering knowledge and perform societal based research
- Exposure to latest technologies in Civil Engineering through industry-institute interaction and professional bodies
- Environs to develop their innovative thoughts, ethics, communication, inter- and intra-personal skills
- Enthusiasm towards self-learning, social responsibility and entrepreneurship

PROGRAM EDUCATIONAL OUTCOME

- To apply knowledge of mathematics, science and engineering to solve existing problems in the area of Structural, Geotechnical, Water Resources, Environmental, Transportation, Urban Planning, Construction Materials and Management in Civil Engineering
- To analyze, design, construct Civil Engineering traditional and modern structures
- To perform investigation on any complicated Civil Engineering problems by conducting research using modern equipment and software tools
- To communicate and develop strong inter- and intra- personal skills to prepare them for placement and higher studies
- To be self-motivated towards lifelong learning and entrepreneurship

STUDENTS' ACHIEVEMENTS

OPEN INNOVATIVE CHALLENGE
STUDENT PLACEMENT
STUDENT INTERNSHIPS

FACULTY CONTRIBUTION

CONFERENCE PRESENTATION
JOURNAL PUBLICATION
FACULTY PROGRESSION
FACULTY MEMBERSHIP
PATENT PUBLICATION

OTHER SIGNIFICANT CONTRIBUTIONS(OCLs)

GUEST LECTURE
WEBINARS
ANTI-RAGGING UNDERTAKING

STUDENT ACHIEVEMENT

Vel Tech Open Innovation Challenge
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. in 1984 UGC Act, 1956)

Focus on
AatmaNirbhar
Bharat Abhiyan

S.No	Team Name	Name of the Member 1	Institute Name	Title of the Project	Title of the Award
6	ZEROS ONES	1. SANDEESH S 2. SANTHANU M	SRI RAMAKRISHNA ENGINEERING COLLEGE COIMBATORE	VIRTUAL MOUSE	BEST PROTOTYPE
7	APATAKAAL VAAHAN MARG	1. CHEVVU VENKATA SUTTHI KUMAR REDDY 2. SUDA VENKATA RAGHAVENDRA 3. UGRAPU MAHENDRA	VEL TECH RANGARAJAN DR.SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY	SMART WAY FOR EMERGENCY VEHICLES WITH ANDROID APPLICATION	BEST SCALABILITY INNOVATION
8	ALPHA	1. M SURBHKSHA 2. S RAMADEVI 3. GURUSHETLA	SRM EASWARI ENGINEERING COLLEGE	SMART AIRBUS	BEST TEAM WORK
9	CHALLENGERS	1. ABINAYA K 2. TAMIL SELVAN R P 3. ADLIN RINO M	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	LOW COST WATER PURIFIER	BEST VIDEO MARKING
10	SPIKEY SPARK	1. ANAND DHARSHINI G 2. DARINI SRI S 3. MYTHILI PRIYA VARSHIN A	HOLY CROSS COLLEGE	FAULT IDENTIFICATION SYSTEM	INNOVATION WITH IP

VEL TECH'S screen

Final year civil students, Ms. K. Abinaya, Mr. R. P. Thamil Selvan and Mr. M. Aldin Rino have won best prototype model making video with cash price of Rs. 4000/- in the event "Open innovation challenge" conducted by VelTech, Chennai. The team was placed 9th out of 120 teams taking part in the event. The team was mentored by Mr. V. Yogeshwaran, Assistant Professor, Civil Department.



STUDENT ACHIEVEMENT

STUDENT PLACEMENT

SOBHA
CONSTRUCTIONS

JOB OFFER FOR AN UNLIMITED TERM CONTRACT

This Job Offer Letter (the "Contract") is made on this day, 09 December 2021

BETWEEN

SOBHA CONSTRUCTIONS LLC, having its Registered Office at PO Box: 25654, MBR City, Nad Al Sheba 1, Dubai, United Arab Emirates. (hereinafter referred to as the "Employer").

AND

R Balaji an Indian, holder of Passport number 50355342 (hereinafter referred to as the "Employee").

The Employer and the Employee collectively referred to as the "Parties" and individually referred to as a "Party".

WHEREAS, THE PARTIES HERETO HAVE MUTUALLY AGREED AS FOLLOWS:

(1) Position

The Employee is hereby appointed as **Graduate Engineer Trainee** on the terms and conditions stated and agreed herein.

(2) Effective Date and Contract Period:

This Contract shall be effective from the date the Employee joins the Employer and shall remain valid for an unlimited period unless terminated in accordance with the provisions of Ministry of Labor Contract (MOL).



Balaji Rajamanickam (B2017-21 Civil Engineering Student) has been selected as a Graduate Engineer Trainee in Sobha Constructions, LLC, Dubai with a package of AED 5000 per Month.

STUDENT ACHIEVEMENT

STUDENT INTERNSHIP



Pre-final year student S. Dhinakaran has undergone an internship under the topic “Environmental management in mines and thermal power plants” at Neyveli Lignite Corporation Limited from 13th to 27th December 2021.

STUDENT ACHIEVEMENT

STUDENT INTERNSHIP

Pre-final year student **S. Dhinakaran** has been selected for undergoing an internship under the topic **“Environmental management in mines and thermal power plants”** at **Neyveli Lignite Corporation Limited**. This scheme is awarded to only **300 students every year** under **L&DC**.

NLC India Limited
(Formerly Neyveli Lignite Corporation Limited)
Neyveli - Dist. of India (Tamil Nadu)
LEARNING & DEVELOPMENT CENTRE
(ISO 9001:2015 Certified Institution)
BLOCK-20, NEYVELI - 607853

15
YEARS
OF
EXCELLENCE

Tel: 0434-213044 E-mail: hr@nclcltd.com Website: www.nclcltd.com

L.C.No. G.M.L&D/L/G/151/2121/2021 & T/2121/2021 Dated: 13.12.2021


To
**THE GENERAL MANAGER,
CORPORATE ENVIRONMENT CELL,
NLC INDIA LIMITED, NEYVELI.**

Respected Sir,
Sub: L&DC - Permission for doing **Internship Training** at NCLCL mode- Reg.
Ref. College Ref No: SKCET/BON-103/2021-22

The competent authority has approved vide note dated 22.03.2021 to provide **internship training** for 300 students for every year. The following student is permitted to do internship training, subject to the terms and conditions of NCLCL, Neyveli.

NAME OF THE STUDENT	COURSE	COLLEGE/ INSTITUTION
I. S. DHINAKARAN	B.E.CIVIL	SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY, COIMBATORE
ENVIRONMENTAL MANAGEMENT IN MINES & THERMAL POWER PLANTS		
TOPIC		
PERIOD	13.12.2021 to 27.12.2021 02 weeks	
GUIDE	SRI.M.SENTHIL KUMAR, GM/CIVIL, CENTRAL ESTABLISHMENT, CORP. ENVIRELCELL, CPF No.31730, MOBILE No: 98652 96652, NCLCL, NEYVELI	

♦ The above student is directed to report to THE GENERAL MANAGER /CORPORATE ENVIRONMENT CELL, NCLCL.
 ♦ Three days before the completion of the Internship Training, the student is advised to report to the Learning & Development Centre with the **DRAFT TRAINING REPORT** for approval.
 ♦ After approval, the Internship Training report shall be presented in the final format along with attendance details.


**DEPUTY CHIEF MANAGER
LEARNING & DEVELOPMENT CENTRE
D.M.GANESH
Deputy Chief Manager
Learning & Development Centre**

To

- ✓ The student concerned.
- ✓ The student is instructed to wear the safety appliances such as PPE@Risk@46@Neyveli@ to safety rules and Covid-19 protocol.
- ✓ Copy to the Asst. Commandant, (CSIF) of CORPORATE OFFICE.
- ✓ Copy to the Unit HOHR, CENTRAL ENVIRONMENT CELL, CORPORATE OFFICE.
- ✓ Copy to the Guide.
- ✓ Copy to the COLLEGE / UNIVERSITY.
- ✓ Copy Submitted to the General Manager/TA
- ✓ Copy to the In-Charge of Executive Hostel/Block-20 - with a request to provide the accommodation facilities to the above student (1) for the above-mentioned period.
- ✓ Copy to the COLLEGE/UNIVERSITY with a request to evaluate the Internship Training only after the receipt of certificate from NCLCL Ltd.

STUDENT ACHIEVEMENT

STUDENT VIRTUAL INTERNSHIP



75 students from the Department of Civil engineering have completed an online virtual Internship organised by Builders Association of India. The virtual internship was conducted for 15 days from 26th July to 8th August, 2021. BAI distributed the certificates during their centre meeting to a few select students on 28th October 2021.

FACULTY CONTRIBUTION

R&D | CONFERENCE PRESENTATION



Mr. R. Vighnesh participated and presented a paper on the topic "Reducing the embodied energy by selection of building components using generative software" in the First ICSMC at JUIT, Wanknaghat, India during 12th - 13th November 2021.

FACULTY CONTRIBUTION

R&D | CONFERENCE PRESENTATION



Dr. P. Saravankumar, Associate Professor, Department of Civil Engineering attended ICMIGC'21 held from 10th and 11th December. They presented their work on "Online Teaching and Learning during COVID-19 pandemic situation special references from Chennai".



FACULTY CONTRIBUTION

R&D | JOURNAL PUBLICATION

ICAPSM 2021 IOP Publishing
Journal of Physics: Conference Series 2070 (2021) 012169 doi:10.1088/1742-6596/2070/1/012169

Experimental Investigation on Grades of Cement in the Nominal and Design Concrete Mixes

D Maruthachalam¹, S C Boobalan² and M Kaarthik³

¹ Professor, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India 641008.
² Assistant Professor, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India 641008.
³ Assistant Professor, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu, India 641014.

E-mail: dmaruthachalam@gmail.com

Abstract. In India, the experience in the use of concrete in housing is more than seven decades old. Concrete mix is a combination of cement, water and aggregates of sand and stone. The relative merits of using 33, 43 & 53 grades of cement in the nominal and design concrete mixes are studied, by testing to destruction hundreds of cubes, cylinders and prisms made using these three grades of cement, the concrete mix having been designed as per the relevant Indian Standard code of practice. The objective of this paper is to make awareness among researchers, engineers and the public about the latest scientific and technical developments in cement, and how to achieve economy in concrete. The foremost objective of concrete mix design is to hand-pick the optimum proportions of various ingredients of the concrete to satisfy the required properties in its fresh and hardened state. As per the investigation, if concrete mixes are designed for different grades adopting separately 33, 43, & 53 grades of cements, grade 53 gives the highest 28 days cube strength, whereas 33 grade cement gives the lowest value. The relative cost of using these three grades is also discussed in the paper.

Dr. D. Maruthachalam, Professor and Head, Department of Civil Engineering has published research article titled "Experimental Investigation on Grades of Cement in the Nominal and Design Concrete Mixes" in Journal of Physics: Conference Series.

FACULTY CONTRIBUTION

R&D | CONFERENCE PRESENTATION

Mr. S. C. Boobalan, Assistant Professor of Department of Civil Engineering along with K. Siranjeevi, S. Saravanaboopathi and Salman Shreef attended the ICACMS held from 14th to 19th December. They presented their work on "Studies on green concrete – A Review".



FACULTY CONTRIBUTION

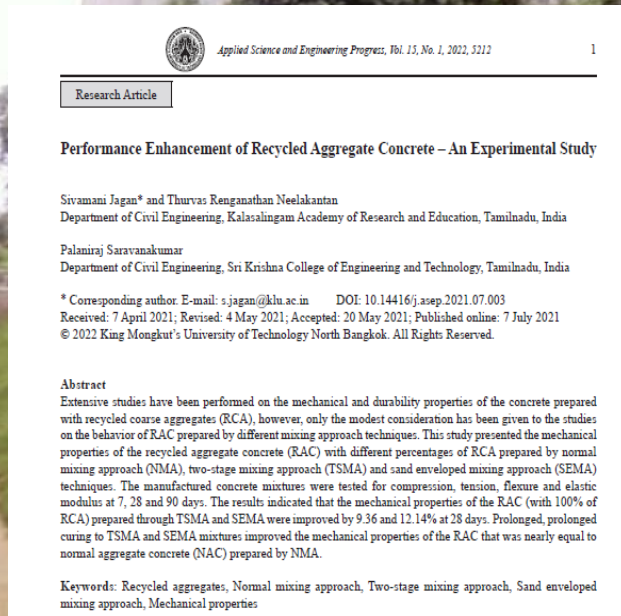
R&D | CONFERENCE PRESENTATION

Mr. A. Jesudass along with P. A. Nishanth, M. Karthick and S . Sanjay Anand attended the ICACMS held from 14th to 19th December. They presented their work on “Optimization of embodied energy and operational energy of design by comparing conventional and sustainable building material configurations”.



FACULTY CONTRIBUTION

R&D | JOURNAL PUBLICATION



Dr. P. Saravanakumar, Associate Professor, Department of Civil Engineering has published research article titled "Performance Enhancement of recycled aggregate concrete – An Experimental Study" in Applied Science and Engineering progress..

FACULTY CONTRIBUTION

R&D | JOURNAL PUBLICATION

11/29/21, 1:35 PM Synthesis of Nano-Particles and Its Applications in Heavy Metal Removal from Wastewater | SpringerLink

 Springer Link

Synthesis of Nano-Particles and Its Applications in Heavy Metal Removal from Wastewater

Inorganic Materials for Energy, Medicine and Environmental Remediation pp 81-97 |
Cite as

- V. Yogeshwaran (1)
- A. K. Priva (2)

1. Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, India
2. Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore, India

Chapter
First Online: 26 November 2021

- 1 Downloads

Part of the [Environmental Chemistry for a Sustainable World](#) book series (ECSW, volume 69)

Abstract

Synthesis of nano-particles from the bulk materials has been discussed and its usage in heavy metal removal from wastewater also reviewed. Both, top-down and bottom up technologies were explained with suitable sketch along with their advantages and disadvantages. The possibility of heavy metal removal from aqueous medium using nano-particles such as iron oxides, zinc oxides, graphene oxides and Carbon Nano-tubes (CNTs), Nano-filtration using membranes also studied. Most common types of heavy metals like Copper, Chromium, Lead, Zinc, Nickel, Arsenic, and Cadmium are removed up to 70% from the industrial/synthetic effluents using these nano-materials as an adsorbent in batch adsorption studies. The process of adsorption may follow Langmuir & Freundlich isotherm models with best correlations. Based on the shape and size of material the synthesis process has been selected to convert them into nano-scale. The characteristics must be analysed by surface characterization techniques such as TEM, FT-IR and XRD analysis for obtaining shape and size of nano-particles. To increase the efficiency of adsorption process, the nano-materials can be widely used because of its very high surface area and porosity. From the above discussions it was observed that, usage of nano-particles in adsorption process is the best way for increasing the rate of adsorption of heavy metals.

https://link.springer.com/chapter/10.1007/978-3-030-79950-4_4#542 1/23

Mr .V. Yogeshwaran,
Assistant Professor,
Department of Civil
Engineering has published
research article titled "Synthesis
of Nano-Particles and its
Applications in Heavy Metal
Removal from Wastewater" in
Inorganic Materials for Energy,
Medicine and Environmental
Remediation.

FACULTY CONTRIBUTION

FACULTY PROGRESSION



Mr. M. R. Ezhil Kumar, Assistant Professor of Department of Civil Engineering completed an ATAL FDP on "Modelling of water resources systems" held from 1st to 5th November, organized by Central University of Jharkhand.

FACULTY CONTRIBUTION

FACULTY PROGRESSION



Mr. M. R. Ezhil Kumar, Assistant Professor of Department of Civil Engineering completed an ATAL FDP on "Carbon Footprint Reduction: Issues and Challenges" held from 8th to 12th November, organised by Goa College of Engineering.

FACULTY CONTRIBUTION

FACULTY PROGRESSION



Dr. S. Ramakrishnan,
Associate Professor of
Department of Civil
Engineering completed an
ATAL FDP on "Strategic
Civil Infrastructre" held
from 25th to 29th October,
organised by Kolhapur
Institute of Technology,
Kolhapur.

FACULTY CONTRIBUTION

FACULTY MEMBERSHIP

Dr. D. Maruthachalam and Dr. P. Saravanakumar, Professor and Head & Associate Professor, Department of Civil Engineering have obtained a Professional Membership in Institution of Engineers (India) on 4th October 2021.

FACULTY CONTRIBUTION

R&D | PATENT PUBLICATION

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202141052457 A
(19) INDIA	
(22) Date of filing of Application :16/11/2021	(43) Publication Date : 10/12/2021
(54) Title of the invention : RESISTIVE IMBIBED MESH SENSOR BASED CONCRETE STRUCTURE STRENGTH MONITORING SYSTEM EMPLOYING IOT	
	<p>(71)Name of Applicant : DR.S RAMAKRISHNAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY, KUNNAMUTHUR, COIMBATORE-641008, TAMIL NADU -----</p> <p>DR.P SARAVANAKUMAR DR.S.SENAPATI DR.V.SATHISH KUMAR DR.J.ROBINSON DR.S.A.VENNILA DR.R.RAMESH DR.T.P.A.BRAYEND DR.S.MUTHUKRISHNANA DR.G.MANIKANDAN DR.S.DHARSANA DR.R.PARTHEEPAN DR.M.MANISHORE ARINTEK</p> <p>Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : DR.S RAMAKRISHNAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY, KUNNAMUTHUR, COIMBATORE-641008, TAMIL NADU -----</p> <p>DR.P SARAVANAKUMAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY, KUNNAMUTHUR, COIMBATORE-641008, TAMIL NADU -----</p>

Dr. S. Ramakrishnan and Dr. P. Saravanakumar, Associate Professors, Department of Civil Engineering has published a patent on the title "Resistive imbibed mesh sensor based concrete structure strength monitoring system employing IOT".

OSCs

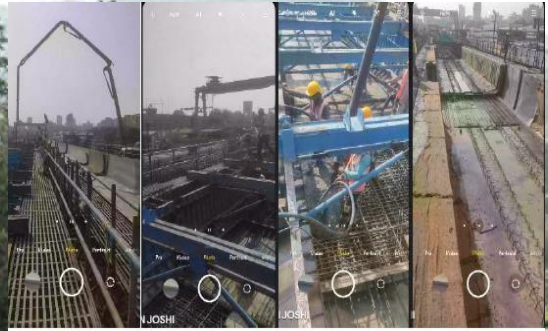
GUEST LECTURE ON “AWARENESS PROGRAM ON SAFETY GUIDELINES IN CONSTRUCTION SITE”

The student chapter of IE(I) Civil Engineering department organized a guest lecture on “Awareness Program on Safety Guidelines in Construction Site”. Mr. Jamal, Safety Trainer and a Consultant, Mastro Lee and Engineering Management Ltd was the resource person.

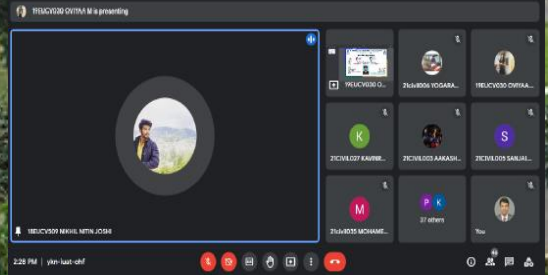


OSCs

WEBINAR ON “CONCEPTIONAL GOALS OF CIVIL ENGINEERING”

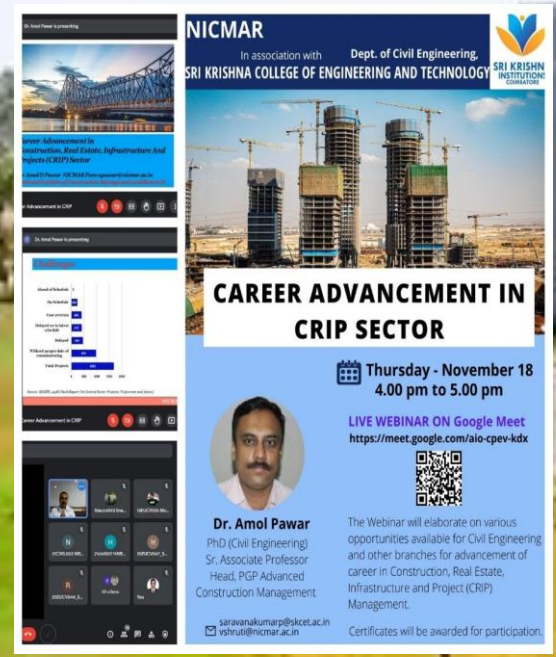


The Higher Education Cell of department of Civil Engineering organized a webinar on “Conceptional Goals of Civil Engineering” on 11 November 2021. The Speaker was Er. Nikhil Nitin Joshi, Junior Engineer, J. Kumar Infrastructure Limited, Mumbai.



OSCs

WEBINAR ON "CAREER ADVANCEMENT IN CRIP SECTOR"



NICMAR
In association with Dept. of Civil Engineering,
SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

CAREER ADVANCEMENT IN CRIP SECTOR

Thursday - November 18
4.00 pm to 5.00 pm

Dr. Amol Pawar
PhD (Civil Engineering)
Sr. Associate Professor
Head, PGP Advanced
Construction Management

LIVE WEBINAR ON Google Meet
<https://meet.google.com/aio-cpev-kdx>

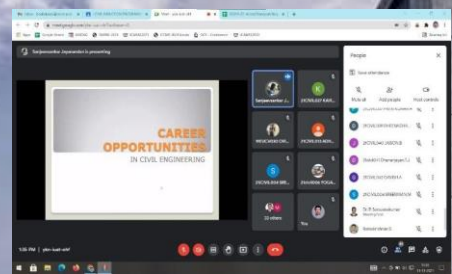
The Webinar will elaborate on various opportunities available for Civil Engineering and other branches for advancement of career in Construction, Real Estate, Infrastructure and Project (CRIP) Management.

Certificates will be awarded for participation.

Department of Civil Engineering in association with NICMAR - Pune organized a webinar on "Career Advancement in CRIP Sector". The webinar was delivered by Dr. Amol D Pawar, Sr. Associate Professor, Head, PGP Advanced Construction Management, NICMAR, Pune.

OSCs

WEBINAR ON "CAREER OPPORTUNITIES IN CIVIL ENGINEERING"



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution | Approved by AICTE | Accredited by NAAC with A Grade |
Kunturathur, Coimbatore - 641 008)

DEPARTMENT OF CIVIL ENGINEERING
(Accredited by NBA)

Civil Engineering Association (CEA) & **INSTITUTION'S INNOVATION COUNCIL (IIC)**
Institution's Innovation Council (IIC)

Organizes a webinar on
"Career Opportunities in Civil Engineering"


Er. E. Nilsimha
Assistant Manager,
Skytree Consulting Engineers Ltd.,
Bangalore.

<https://meet.google.com/kykn-luat-ohf>  **11th November 2021**
(Thursday)
1.30 - 2.15 PM

The Civil engineering department organized a guest lecture on "Career opportunities in Civil Engineering" on 11th November 2021 through google meet. The Chief guest was Er. E. Nilsimha, Assistant Manager, Skytree Consulting Engineers Pvt. Ltd., Bangalore.

OSCs

WEBINAR ON “LIFE LESSONS FROM MY ENTREPRENEURSHIP JOURNEY”



VENKATESH VESAT is presenting

**My
Entrepreneurial
Journey**

L. R. Venkatesh
Secretary, Tamilnadu Solar Energy Developers Association
Managing Director, Vesat Renewables Pvt Ltd.

VESAT
Renewable Energy Services

2:57 PM | yko-lsat-ohf

The student chapter of Institution of Engineers (India) of civil engineering department organized a guest lecture on “Life Lessons from My Entrepreneurship Journey”. Mr. L R Venkatesh, Managing Director, Vesat Renewables Pvt. Ltd was the resource person.

OSCs

WEBINAR ON “METRO RAIL SYSTEMS”

Mr. M. R. Ezhil Kumar was invited as a guest speaker in Achariya College of Engineering Technology on the topic “Metro Rail Systems”.

Session take away:

1. Overview of Metro Rail Systems
2. Metro networks in India
3. Financing for Metro Rail Projects



ACHARIYA COLLEGE OF ENGINEERING TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING



Welcome you all to participate
National Level Webinar on
“METRO RAIL SYSTEM”




M.R.EZHILKUMAR
Assistant Professor,
Department of Civil Engineering,
Sri Krishna College of Engineering
and Technology, Coimbatore.


Saturday
11th DEC 2021,
10.00am.

For Details & Admissions Contact:
+917867924859, +917708121849,
www.acet.edu.in
<https://meet.google.com/dis-nneq-ycf>


E-Certificate will be issued to all the participants



METRO RAIL SYSTEMS
Webinar
Presented by
Achariya College of Engineering Technology, Pandicherry
Date: 11 DEC 2021 Time: 10:00 AM
S.R. Gokulakrishnan, B.E., M.E., Ph.D.
Assistant Professor
Department of Civil Engineering,
Sri Krishna College of Engineering and Technology, Coimbatore.
Website: www.acet.edu.in



Why Kolkata?????



End of the topic

THANK YOU!

OSCs

ANTI-RAGGING UNDERTAKING



Second year students of Sri Krishna College of Engineering and Technology have taken an undertaking that they will not encourage ragging of any kind on and off the campus. They also pledged to make the college “Ragging free” and will not be involved in it, either in deed, action or thought in their personal life.

From the Editorial Team of

Chief Patron

**Smt. S. Malarvizhi,
Chairperson and Managing
Trustee,
Sri Krishna Institutions**

Patron

**Dr. K. Sundaraman,
CEO,
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