V R SIDDHARTHA ENGINEERING COLLEGE
(Autonomous)
Department of Civil Engineering

Dt: 25.08.2023

Circular

This is to inform all the students who are the members of Indian Concrete Institute (ICI) student Chapter of this college that the details of the student Executive Council formed after scrutiny are as under:

Details of Student Executive Council, ICI-VRSEC-Student Chapter:

S.No.	Name & Roll. No	Year of Study & Section	Position in Student Executive Council
1	SURE LOHITH SAI (218W5A0131)	IV/IV Sec-C	President
2	MEKALA SUBRAHMANYAM (228W5A0109)	III/IV Sec-A	Vice President
3	UPPULETI SRUJANA (218W1A0149)	III/IV Sec-A	Secretary
5	KOLLAPUDI GOPI (228W5A0107)	III/IV Sec-A	Joint Secretary
7	JUJJAVARAPU SAMVIDHA (228W5A0121)	III/IV Sec-A	Treasurer
8	MOVVA MEGHANA SAI (218W1A0134)	III/IV Sec-A	Student-Coordinator
9	B. BASAVA RAJU (218W1A0106)	III/IV Sec-A	Student-Coordinator
10	SHAIK BAJI (218W1A0142)	III/IV Sec-A	Student-Coordinator

The above committee members are requested to meet the faculty coordinator (Dr. K.Hanuma) for further proceedings.

(Dr.Ch. Srinivas)
Prof. & Head, CE Dept.

CC: To

1. N.B
2. To be read in all CE Classes
3. ICI File

DEPARTMENT OF CIVIL ENGINEERING

V R SIDDHARTHA ENGINEERING COLLEGE

Indian Concrete Institute (ICI)-Student Chapter-VRSEC -Activities AY 2023-2024

S.No	Professional Chapter	Type of Event	Date	Event Name	Participants	International/ National/State	Outcome/Impact
1	ICI-VRSEC	Demonstration Lecture	17-07-2023	"Concrete 3D Printing Technology to CREDAI Industry Partners"	55	State	Industry partners, M.Tech, B.Tech-students and Faculty will gain in-depth knowledge about the advantages, limitations, and material considerations associated with concrete 3D printing. The lecture has inspired industry partners to think creatively about how to leverage concrete 3D printing in their projects and foster innovative ideas for its application.
2	ICI-VRSEC	Motivation Lecture Through GATE"	22-09-2023	Seminar: "Career Opportunities	85	State	The lecture has fortified students' confidence in their capabilities to prepare for and excel in the GATE examination.
3	ICI-VRSEC	Field Trip	30-09-2023	"Field Trip on Building Construction"	55	State	Students have gained a deeper understanding of construction processes, techniques, and the various elements involved in building a structure. They

							witness theoretical knowledge being applied in practice.
4	ICI-VRSEC	Competition"	10-10-2023	"3D Printable Concrete Mix Competition"	20	State	Participants have developed and showcased innovative concrete mixtures specifically tailored for 3D printing technology. This can lead to the discovery of more efficient, sustainable, and cost-effective construction materials.
5	ICI-VRSEC	E-Poster Competition	10-10-2023	Smart materials and techniques for sustainable development"	7	State	Participants have gained a deeper understanding of sustainability issues, smart materials, and techniques. The competition serves as an educational platform that raises awareness about the importance of sustainable development.
6	ICI-VRSEC	INDUSTRIAL TOUR	27-11- 2023	CONSTRUCTION OF SEGMENTAL BRIDGE ACROSS RIVER KRISHNA	28	State	Students may develop an innovative and efficient design for the segmental bridge, showcasing their creativity and ability to think outside the box. This could lead to new insights and solutions in the field of bridge engineering.
7	ICI-VRSEC	Guest Lecture	03-01-2024	" Structural Behavior of Self-Compacting Mortar at	60	International	The outcomes of studying the structural behavior of self-compacting mortar at elevated temperatures for students involves gaining insights into how this material performs

				Elevated Temperature "			under high-temperature conditions.
8	ICI-VRSEC	Sri B.V.Krishna Rao Endowment Lecture	09-01-2024	" Research, Innovation and Applications " by Prof. A. Meher Prasad, Department of Civil Engineering, IIT Madras, Chennai, India	90	National	The discussions on innovative construction techniques likely inspired students to explore further research opportunities in areas such as GFRG, 3D printing, and seismic retrofitting. Prof. A. Meher Prasad's experiences may have sparked a passion for research and innovation among the students.
9	ICI-VRSEC	Guest Lecture	06-02-2024	"Sustainability in Cement Industry and Soft Skills Required for CE Students"	80	State	Improved understanding of the industry's expectations regarding sustainability practices and soft skills. Increased preparedness for entering the workforce with a well-rounded skill set. Enhanced confidence in navigating professional challenges and opportunities.

DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

Demonstration Lecture on: "Concrete 3D Printing Technology to CREDAI Industry Partners"

Event Type	Demonstration Lecture
Date / Duration	17-07-2023 – 3 PM to 5 PM
Resource Person	**Dr.Hanuma Kasagani**, Assistant Professor, CED-VRSEC
Name of Coordinator	**Dr.Hanuma Kasagani and Mr.G.Nipun**, Assistant Professor, CED-VRSEC
Target Audience	CREDAI-Industry Partners, M.Tech, B.Tech-students and Faculty members of Civil
Total no of Participants	55
Objective of The-event	The objective of a demonstration lecture on "Concrete 3D Printing Technology to Industry Partners" is to educate and inform industry partners about the benefits, applications, and potential impact of concrete 3D printing technology in the construction and related sectors.
Outcome of The-event	Industry partners, M.Tech, B.Tech-students and Faculty will gain in-depth knowledge about the advantages, limitations, and material considerations associated with concrete 3D printing. The lecture has inspired industry partners to think creatively about how to leverage concrete 3D printing in their projects and foster innovative ideas for its application.
Feedback / Suggestions	Industry partners, M.Tech, B.Tech-students and Faculty gave positive feedback on the Motivation Lecture on Demonstration Lecture on: "Concrete 3D Printing Technology to Industry Partners" and requested more programmes in this manner.

Photos

Invitation

Department of Civil Engineering,
Velagapudi Ramakrishna Siddhartha Engineering College
Cordially Invite you to the demonstration of
Concrete 3D Printing Technology
to our Industry Partners

CREDAI
VIJAYAWADA

Time: 3.00 pm on Monday 17 July 2023
Venue: Centre of Excellence in Concrete - The KCP Limited at CE Dept

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE VIJAYAWADA

kcp

By
Department of Civil Engineering
Velagapudi Ramakrishna
Siddhartha Engineering College
Autonomous Vijayawada

ICI Indian Concrete Institute
ICI VRSEC Student Chapter

Mr. G. Nipun
Assistant Professor,
CED-VRSEC

Dr. Hanuma Kasagani
Assistant Professor,
CED-VRSEC, Coordinator
ICI-VRSEC-Student-Chapter

Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CED-VRSEC

DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

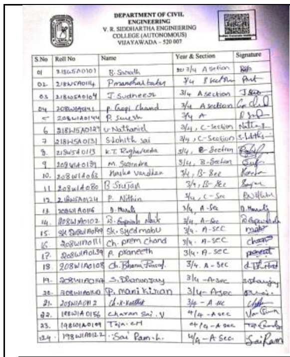
Motivation Lecture on Seminar: "Career Opportunities Through GATE"

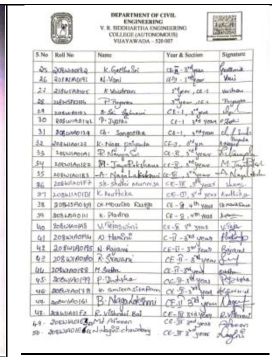
Event Type	Motivation Lecture
Date / Duration	22-09-2023 – 10 AM to 12 PM
Resource Person	**Mr. Sourav Upadhyay, M.Tech NIT-Jamshedpur, IMS Gate Academy**
Name of Coordinator	**Dr. N. Malathi and Dr.Hanuma Kasagani**, Assistant Professor, CED-VRSEC
Target Audience	B.Tech-students and Faculty members of Civil
Total no of Participants	85
Objective of The-event	The objective of the Motivation Lecture on the seminar titled "Career Opportunities Through GATE" is to inspire and empower attendees by providing them with a deep understanding of the Graduate Aptitude Test in Engineering (GATE) and its potential impact on their career paths. The lecture aims to motivate student participants to explore GATE as a viable avenue to pursue higher education, enhance job prospects, and achieve their professional aspirations.
Outcome of The-event	Increased Awareness: Students depart from the lecture with an enriched understanding of the Graduate Aptitude Test in Engineering (GATE), comprehending its significance and the diverse career opportunities it can unlock. Motivation and Enthusiasm: The lecture has successfully inspired students, kindling a strong sense of enthusiasm and motivation to delve into GATE as a means to advance their careers. Clearer Career Goals: Participants have achieved greater clarity regarding how GATE aligns with their career objectives, whether it entails pursuing higher education, securing positions in top-tier companies, or entering the research and development sector. Confidence Building: The lecture has fortified students' confidence in their capabilities to prepare for and excel in the GATE examination.
Feedback / Suggestions	B. Tech students gave positive feedback on the Motivation Lecture on Career Opportunities Through GATE and requested more programmes in this manner.

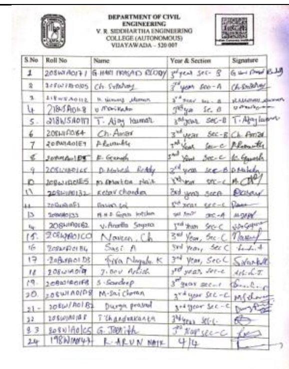
Photos

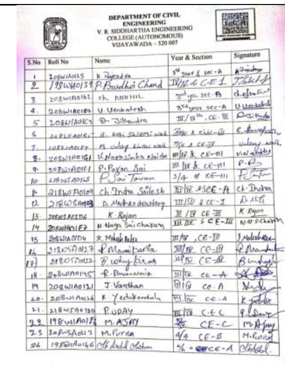

VRSEC
VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
(Sponsored by Siddhartha Academy of General & Technical Education)
Department of
Civil Engineering
Indian Concrete Institute
ICI VRSEC Student Chapter
IMS GATE ACADEMY
A Division of IMS Learning Resources Pvt. Ltd.
www.imsindia.com/gate
SEMINAR
CAREER
OPPORTUNITIES
Through GATE
In association with
Dept. of Civil Engineering
VRSEC, Vijayawada
22nd Sept, Friday
10:00 AM onwards
Velagapudi Ramakrishna Siddhartha Engineering College
TCR Colony, Chalasani Nagar, Kanuru, Vijayawada 520007
Register Now
7702919777 / 8978999986
Mr. Sourav Upadhyay
M.Tech-NIT Jamshedpur
6+ Years of Teaching Exp.

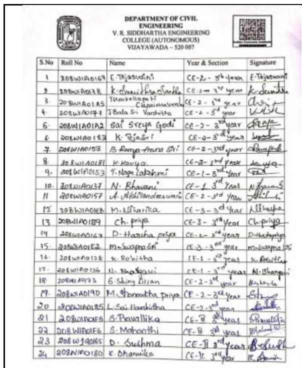
Attendance:

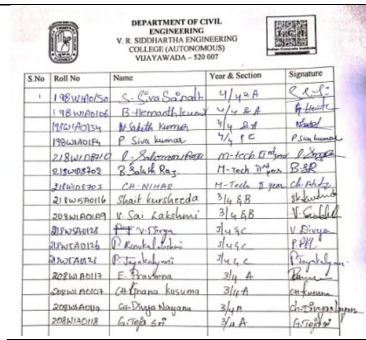


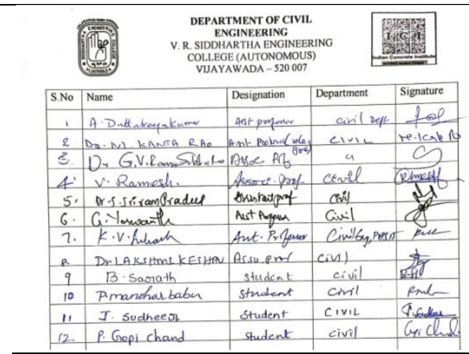










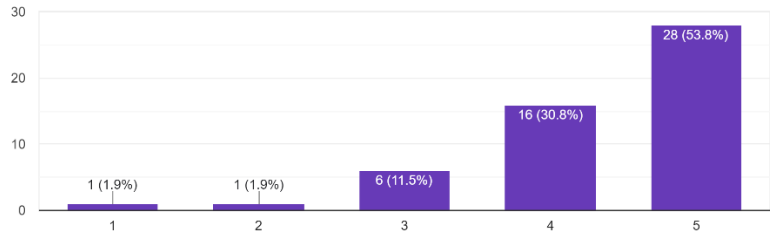

DEPARTMENT OF CIVIL ENGINEERING
V. R. SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS)
VIJAYAWADA – 520 007

S.No	Name	Designation	Department	Signature
1	A. Dattatreyakumar	Asst professor	civil dept	
2	Dr. M. KANTA RAO	Asst. Professor	CIVIL	
3	Dr. G.V. Rama Subba Rao	Assoc. Prof		
4	V. Ramesh	Assoc. Prof	Civil	
5	Dr. S. Sriram Pradeep	[illegible]	Civil	
6	G. Yaswanth	Asst Professor	Civil	
7	K.V. [illegible]	Asst. Professor	Civil Eng, PVPSIT	
8	Dr. LAKSHMI KESHAV	Asso. prof	civil	
9	B. Samath	student	civil	
10	P. Manohar babu	student	civil	
11	J. Sudheer	Student	CIVIL	
12	P. Gopi chand	student	civil	

Feedback

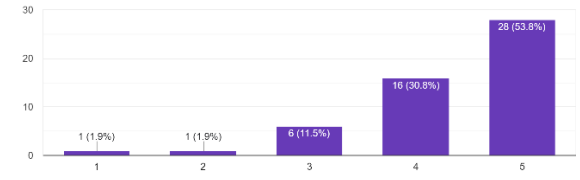
How would you rate the presenter's knowledge in the subject

52 responses



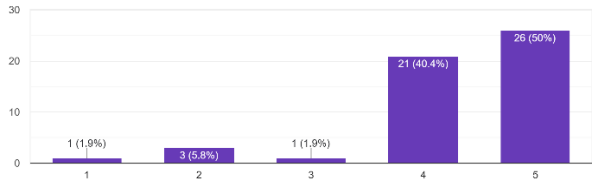
How would you rate the presenter's knowledge in the subject

52 responses



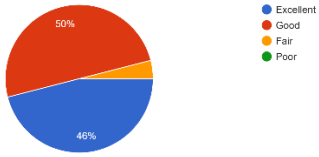
How would your rate the presenter's style of teaching

52 responses



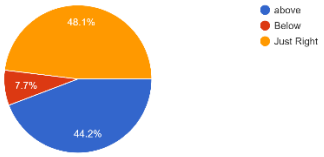
How would you rate the presenter

50 responses



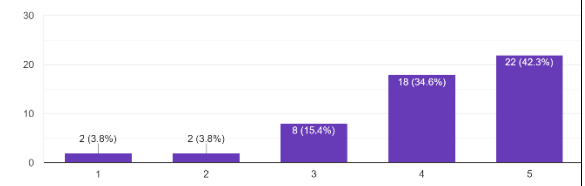
Was the Workshop on Motivation Lecture on Seminar: "Career Opportunities Through GATE" above or below your current skill level?

52 responses



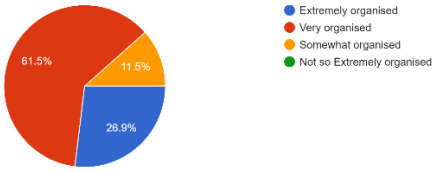
Overall, how would you rate the Motivation Lecture on Seminar: "Career Opportunities Through GATE"

52 responses



How organised was the Motivation Lecture on Seminar: "Career Opportunities Through GATE"

52 responses



Dr. N. Malathi
Assistant Professor,
CED-VRSEC

Dr. Hanuma Kasagani
Assistant Professor,
CED-VRSEC, Coordinator
ICI-VRSEC-Student-Chapter

Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CED-VRSEC

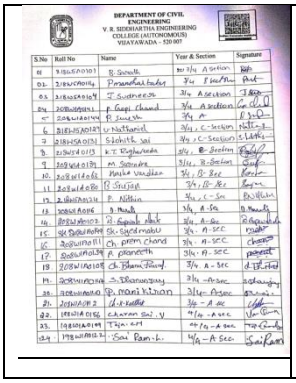
DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

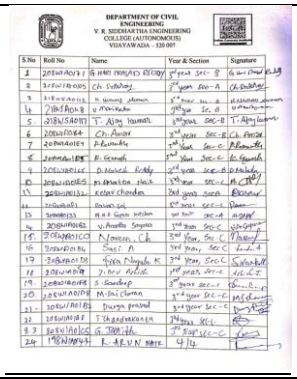
"Field Trip on Building Construction"

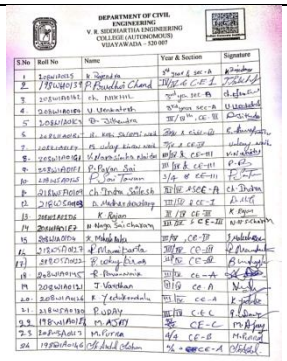
Event Type	Field Trip
Date / Duration	30-09-2023 – 10 AM to 12 PM
Resource Person	**Er.Siva Rami Reddy, Director, GAMBREL ENGINEERS LLP**
Name of Coordinator	**Mr. A.D.Kumar and Dr.Hanuma Kasagani**, Assistant Professor, CED-VRSEC
Target Audience	B.Tech-students and Faculty members of Civil
Total no of Participants	55
Objective of The-event	The objective of a field trip on building construction for students can encompass a range of educational and practical goals, designed to enhance the students' understanding of construction processes and the built environment.
Outcome of The-event	Students have gained a deeper understanding of construction processes, techniques, and the various elements involved in building a structure. They witness theoretical knowledge being applied in practice.
Feedback / Suggestions	B. Tech students gave positive feedback on the Field Trips and requested more programmes in this manner.

Photos

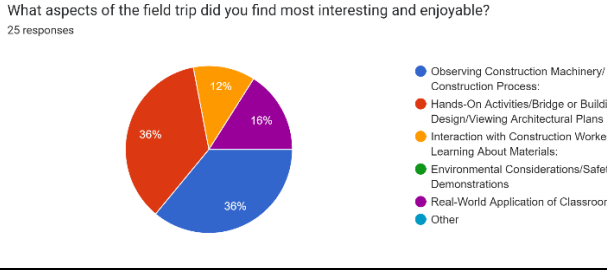
Attendance:

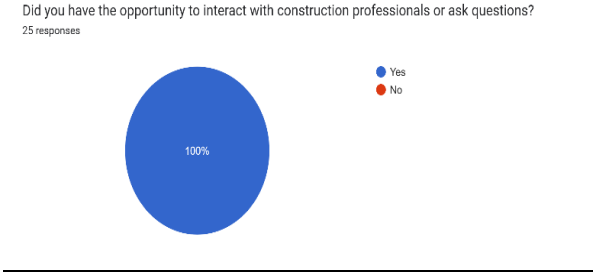


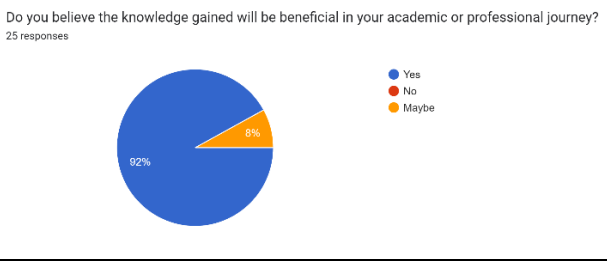


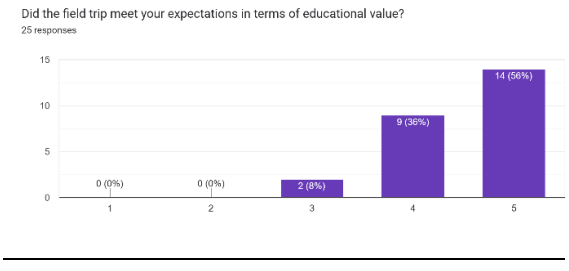


Feedback



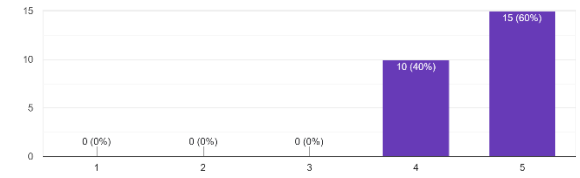






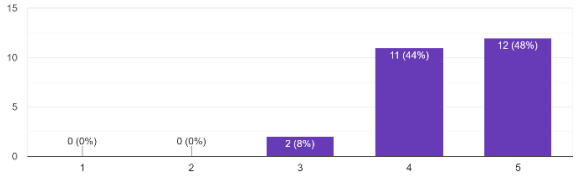
Did you feel safe during the field trip? Were safety measures adequately addressed?

25 responses



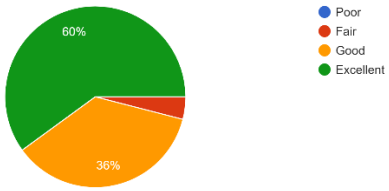
How do you think this field trip relates to your current coursework or future career goals?

25 responses



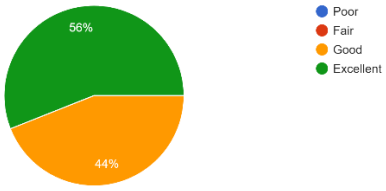
how would you rate your overall experience during the field trip?

25 responses



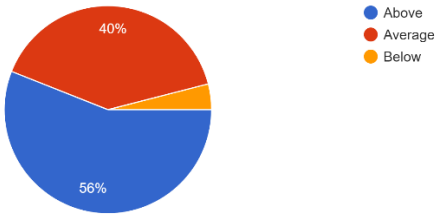
How would you rate the organization and logistics of the trip?

25 responses



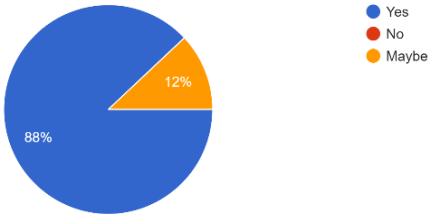
Was the field trip above or below your current skill level?

25 responses



Would you recommend this field trip to other students in your program ?

25 responses



Mr. A.D Kumar
Assistant Professor,
CED-VRSEC

Dr. Hanuma Kasagani
Assistant Professor,
CED-VRSEC, Coordinator
ICI-VRSEC-Student-Chapter

Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CED-VRSEC

DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

"3D Printable Concrete Mix Competition"

Event Type	Competition
Date / Duration	10-10-2023 – 10 AM to 5 PM
Resource Person	**Mr. A.D.Kumar,** Assistant Professor, CED-VRSEC
Name of Coordinator	**Dr.Hanuma Kasagani**, Assistant Professor, CED-VRSEC
Target Audience	B.Tech-students and Faculty members of Civil
Total no of Participants	20
Objective of The-event	The objective of a 3D Printable Concrete Mix Competition for students is to promote innovation, education, and hands-on learning in the field of construction and additive manufacturing. The competition encourages students to develop and experiment with concrete mixtures specifically designed for 3D printing technology.
Outcome of The-event	Participants have developed and showcased innovative concrete mixtures specifically tailored for 3D printing technology. This can lead to the discovery of more efficient, sustainable, and cost-effective construction materials.
Feedback / Suggestions	B. Tech students gave positive feedback on the 3D Printable Concrete Mix Competition and requested more programmes in this manner.

Photos

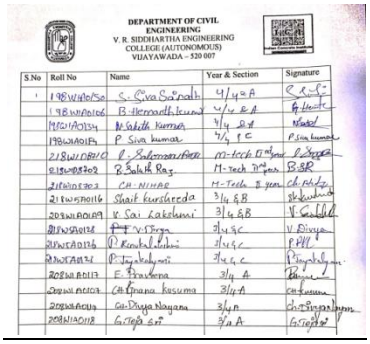

VRSEC
VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
Department of
Civil Engineering
CIVILIZE 2K23
3D Printable Concrete Mix Competition
On OCT 10th
YOU'RE INVITED
GRAND PRIZE
Design a Concrete mix optimized for 3D printing. Evaluation Criteria will be based on- Extrudability, Flowability and Buildability
REGISTER NOW
Rs 200/- (3 Events)
1st Prize -4,500/-
2nd Prize -3,000/-
3rd Prize -1,500/-
Sponsored by :
Er.K. VENKAT RAMAN,
Technical Head, Ultratech Pvt.Limited, Vijayawada
Find event Rules and Regulations here:
Faculty Co-ordinator:
Dr.K.Hanuma
Asst.Prof Dept of CE
Organized by-
Student Co-ordinators: K.Gopi- 9177681658 | P.Abhinay-8639295402
@civilize_2k23
civilize2k23@gmail.com
VENUE: CONCRETE LAB


NIRMAAN


IRMAAN

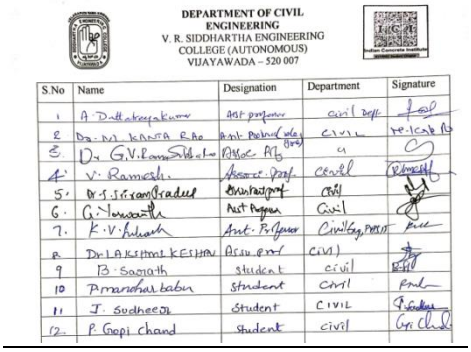

NIRMAAN

Attendance:



DEPARTMENT OF CIVIL ENGINEERING
V. R. SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS)
VIJAYAWADA – 520 007

S.No	Roll No	Name	Year & Section	Signature
1	198W1A0150	S. Siva Sai Nath	4/4 A	
	198W1A0106	B. Hemanth Kumar	4/4 B.A	
	198W1A0154	M Sakethi Kumar	4/4 B.A	
	198W1A01F4	P. Siva kumar	4/4 F C	
	218W1D8212	P. Satyanarayana	M-tech 1st year P.Struct	
	218W1D8202	B. Sakethi Raj	M-tech 1st year B.SR	
	218W1D8203	CH. NIHAR	M-Tech 1st year Ch.Niha	
	218W1A0116	Shaik kurshreeda	3/4 B.B	
	208W1A0109	V. Sai Lakshmi	3/4 B.B	
	218W1A0138	V. Divya	3/4 B.C	
	208W1A0136	P. Kushal Sahi	3/4 B.C	
	208W1A0134	P. Jayakalyani	3/4 B.C	
	208W1A0113	E. Pavankumar	3/4 A	
	208W1A0103	Ch. Pavana kusuma	3/4 A	
	208W1A0119	Ch. Divya Nayana	3/4 A	
	208W1A0118	G. Yoga Sai	3/4 A	



DEPARTMENT OF CIVIL ENGINEERING
V. R. SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS)
VIJAYAWADA – 520 007

S.No	Name	Designation	Department	Signature
1	A. Dattakrupa Kumar	Asst professor	civil Dept.	
2	Dr. M. KANTA RAO	Asst. Professor (On leave)	CIVIL	
3	Dr. G.V. Rama Subbarao	Professor	CIVIL	
4	V. Ramesh.	Assoc. Prof.	CIVIL	
5	Dr. S. Sriramchandra	Assistant prof.	CIVIL	
6	G. Nagarathi	Asst Professor	Civil	
7	K. V. Subbarao	Asst. Professor	Civil Engg. Dept.	
8	Dr. LAKSHMI KESHAV	Assu. prof	CIVIL	
9	B. Sampath	Student	civil	
10	Pranchar babu	Student	CIVIL	
11	J. Sudheer	Student	CIVIL	
12	P. Gopi Chand	Student	civil	

Mr. A.D Kumar
Assistant Professor,
CED-VRSEC

Dr. Hanuma Kasagani
Assistant Professor,
CED-VRSEC, Coordinator
ICI-VRSEC-Student-Chapter

Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CED-VRSEC

DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

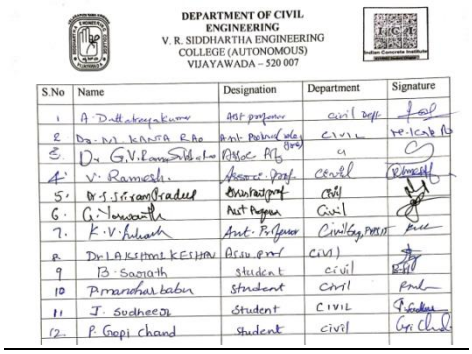
"E-Poster Competition on Smart materials and techniques for sustainable development"

Event Type	Competition
Date / Duration	10-10-2023 – 10 AM to 5 PM
Resource Person	**Mr. G.Vinay Kumar,** Assistant Professor, CED-VRSEC
Name of Coordinator	**Dr.Hanuma Kasagani**, Assistant Professor, CED-VRSEC
Target Audience	B.Tech-students and Faculty members of Civil
Total no of Participants	7
Objective of The-event	The objective of a competition on smart materials and techniques for sustainable development for students is to encourage innovation, education, and problem-solving related to the use of advanced materials and techniques in achieving sustainable development. The competition aims to inspire and engage students in addressing critical global challenges while nurturing their creativity and knowledge.
Outcome of The-event	The competition fosters the development of innovative solutions and projects that leverage smart materials and techniques to address real-world sustainability challenges. This can lead to the creation of novel technologies, designs, and practices. Participants have gained a deeper understanding of sustainability issues, smart materials, and techniques. The competition serves as an educational platform that raises awareness about the importance of sustainable development.
Feedback / Suggestions	B. Tech students gave positive feedback on the Field Trips and requested more programmes in this manner.

Photos


VRSEC
VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
Department of
Civil Engineering
CIVILIZE 2K23
10TH AND 11TH OCT
E-POSTER PRESENTATION
You are Invited
→Participants should be with a team of two members
→Submit E- poster to the given mail id and should give presentation on it.
→The aspects considered in the competition are: technical content of poster, presentation skills, poster formatting and appearance.
THEME :-
Structural health monitoring
Techniques for Eco-Friendly Low-Cost Houses and Smart structures
Smart Materials and Techniques for Sustainable Development
Recycling and waste management
Innovation for Sustainable Smart Concrete
Time:-11.30 AM on 10th oct
Place :- 201 room in vrsec civil department
Enter to Win
Faculty Coordinator :
Dr. Hanuma Kasagani
Contact no: 9381360679
Student Coordinators :
T. Rishit Krishna
K. Siri
Registration fees- 200/-
Rs 200/- (3Events)
Indian Concrete Institute
Civilize_2K23
Civilize2K23@gmail.com

Attendance:



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V. R. SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS)
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3	Dr. G.V.Ram Subbaiah	Assoc. Prof.	"	
4	V. Ramesh.	Assoc. Prof.	Civil	
5	Dr. S. Sriram Prasad	Assistant prof.	Civil	
6	G. Vinaath	Asst Professor	Civil	
7	K.V. Subbarao	Asst. Professor	Civil Engg, PVPSIT	
8	Dr. L A Kesava KESHAV	Assistant	civil	
9	B. Sagnath	student	civil	
10	Pmanohar babu	student	civil	
11	J. Sudheer	student	CIVIL	
12	P. Gopi chand	student	civil	

Dr. G. Vinay Kumar
Associate Professor,
CED-VRSEC

Dr. Hanuma Kasagani
Assistant Professor,
CED-VRSEC, Coordinator
ICI-VRSEC-Student-Chapter

Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CED-VRSEC

DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

REPORT ON INDUSTRIAL TOUR

CONSTRUCTION OF BOX GIRDER SEGMENTAL BRIDGE ACROSS RIVER KRISHNA UNDERVIJAYAWADA BYPASS PROJECT PRIVATE LIMITED (VBPPL PROJECT) BY NATIONAL HIGHWAY AUTHORITY OF INDIA (NHAI) BETWEEN GOLLAPUDI VILLAGE, NTR DISTRICT & CHINAKAKANI VILLAGE, GUNTUR DISTRICT ON 27TH OF NOVEMBER 2023

Thanks to NHAI authority for giving this opportunity to organize the field visit and providing hospitality

Accompanied staff:

Dr. P.K.Prasanna

Dr.K.Hanuma

Tours Incharge **Head of the Department**

INTRODUCTION:

Vijayawada Bypass Project Private Limited (VBPPL) is a private, non-governmental company that was incorporated in India on May 15, 2020. The company was incorporated by Adani Enterprises and Navayuga Engineering Company. VBPPL's project is to construct a six-lane bypass from Gollapudi to Chinnakakani in Vijayawada. The bypass will be part of the Chennai-Kolkata highway and will connect China Kakani in Guntur district to Peda Avutupalli in Gannavaram mandal of Krishna district. The bypass includes a major bridge across the Krishna River. The proposed alignment is hereunder.

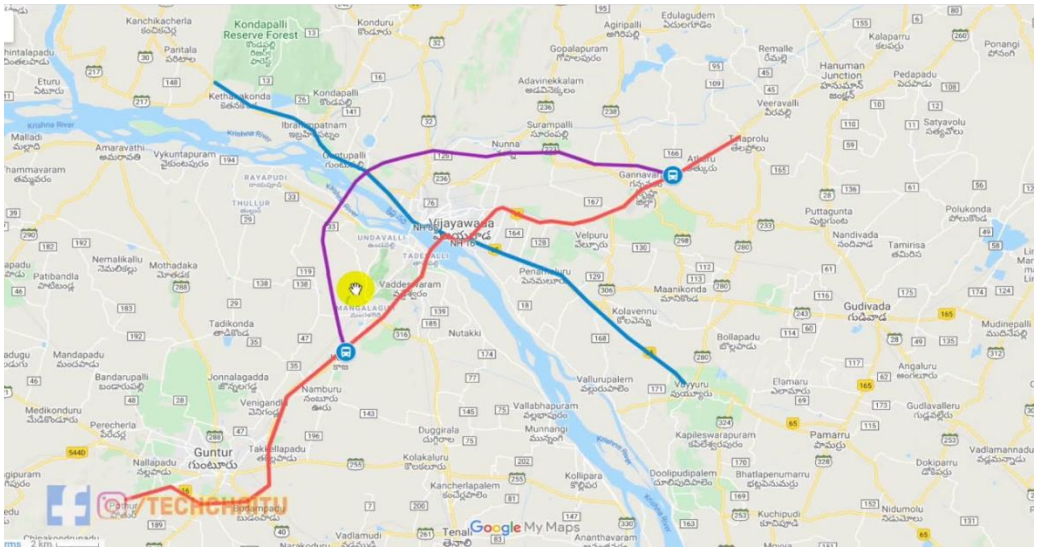


Fig. 1. Location of site map

The project is contemplated under Bharatmala Pariyojana program for the highways sector in India. It aims to improve the efficiency of freight and passenger movement. It will build a network of roads, highways, and expressways across India.

The project envisages six laning of Vijayawada Bypass from Gollapudi (Design Chainage 30.000) to Chinakakani (Design Chainage 47.881) including major bridge across River Krishna in Vijayawada Gundugolanu section of NH-16 in the state of Andhra Pradesh.

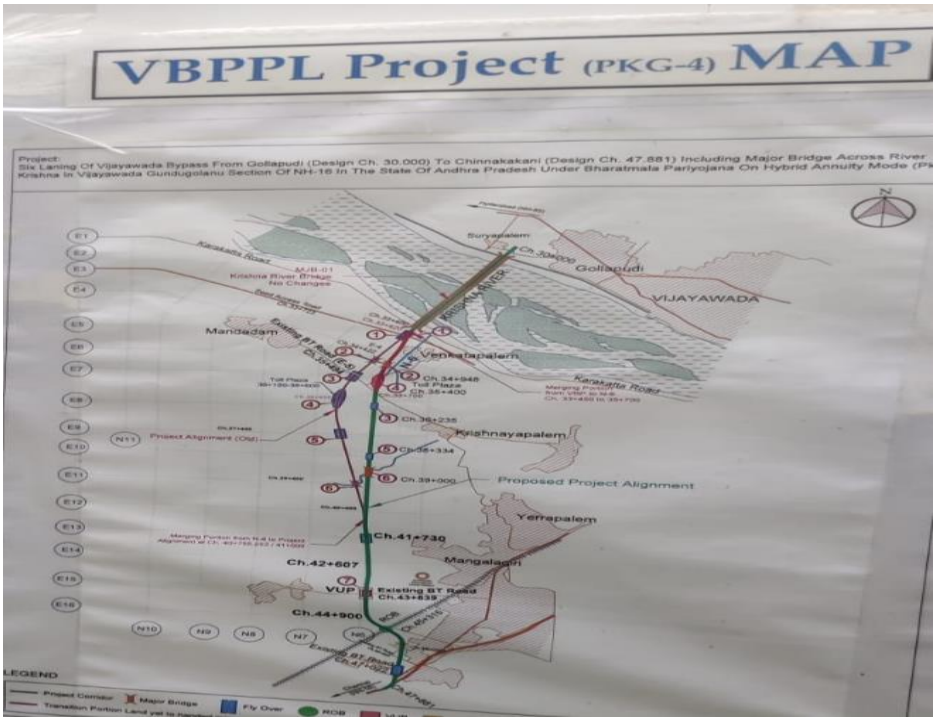


Fig.2. Bridge Layout

CONSTRUCTION OF SEGMENTAL BRIDGE ACROSS RIVER KRISHNA

- Length –3.12 km
- Spans –52 Nos
- Carriage way width – 17 m
- Gradient – Nil
- Camber – 2.5%
- Each span – 60 m
- Segments in each span – 18 Nos
- Grade of Concrete – M 50
- Grade of Steel – Fe 500/Fe 550 D
- Type of foundations – Pile foundation
- Period of completion – 3 years
- Connecting villages – Gollapudi, NTR District & Venkatapalem Guntur District

SUB STRUCTURE:

After a Detailed Project Report (DPR) followed by geotechnical investigation, the foundations were proposed as pile foundations in view of low bearing capacity of the soil in the river bed. Four piles of each 1.7 m diameter in square

alignment are designed. The depth of piles varies between 34 to 40 m depending on the existing hard soil strata. All the piles are friction piles with partial end bearing.

Initially a liner is welded to the size of 1.7 m diameter each and driven by boring. The reinforcement is lowered in the shape of cages. The cages were welded at every 12 m length to arrive at the depth of pile. Tremie pipes of 200 mm diameter are drilled through which Bentonite flushing is done.Bentonite seals the drilled shaft from water ingress. Bentonite has excellent thixotropic and suspension properties with low filtrate loss. It is also useful as a sealant because of its property of swelling. According to IS 2911-1-4 (2010), the flushing process should continue until the consistency of the inflowing and out flowing slurry is similar. Then the pile concreting is done.

The piles were joined with pile cap of size 7.3 x 7.3 x 2.7 m. The sequence for pile cap is initially excavation for pile cap, levelling to required reduced level and then the piles are chipped for ensuring bond between piles and pile cap. The reinforcement is checked as per the drawings before concreting. A starter/kicker of 200 mm is formed to hold the reinforcement and shuttering for the pier. The pier is erected on the pile cap with a diameter of 2.4 m to a height of 6.396 m over which a trapezoidal pier cap is formed

Fig.3. Construction of pile cap, pier and pier head

BEARINGS:

The pier cap is extended to 4 pedestals at corners to accommodate bearings. The pedestals are fitted with sleeve anchorage system for facilitating the connection to bearings. As bearings are mechanical parts that manage the inevitable movements of bridge structures, they are one of the most important structural components. The selection of the right bearing type for use requires the attention of a specialist. So does its installation, monitoring, maintenance and replacement. Spherical bearings were preferred for the present bridge in view of its importance and anticipated heavy super imposed moving loads. Its spherical plate allows rotation around each axis at low friction. They are very durable and can withstand higher vertical loads as well as high rotations. The 4 studded bearing include free, fixed transverse guided and longitudinal guided bearings. The fixed bearings were preferred at every 3 spans i.e., 180 m c/c. The longitudinal guided bearings were preferred at every 2 spans i.e., 120 m c/c.

SUPER STRUCTURE:

The river at the point of crossing is divided into 4 streams intertwined with islands. Therefore, two methods of erection were adopted for the superstructure for early completion.

- Launching Girder (LG) in the water course
- Ground Support System (GSS) on the land

A method of Match casting is employed with Post Tensioning technology for super structure.

Fig.4.Arrangement of reinforcement for casting of box girder

Each span is divided into 18 segments which includes 2 pier segments and 16 typical segments. The pier segments are end segments which are 1.99 m long and are heavily reinforced to transfer the loads to the sub structure. A typical segment is 3.42 m long. Reinforcement Zigs for each segment as per the bar bending schedule are made and placed in the casting yard for concreting. Reinforcement cover of 40 mm is adopted. Sheathing for cable ducts is provided before concreting. The casted segments are lifted to the stacking yard after 28 days of intense curing.

Fig.5. Shifting of girder from casting site to the location

Two survey towers on either end of bridge are erected for fixing the alignment of the bridge. Each segment has steel plates of 4 x 4 cm to which coordinates are allotted from the survey towers to facilitate the joining in correct sequence. Hence, there is no room for error or mismatching of the casted segments during erection. Each span takes about 6 days for completing the erection.

The Launching Girder (LG) is 135 m long, weighs about 600 tons and divided into modules. The making of LG is a twin truss and has a capacity of carrying about 100 tones. A Winch test is carried out to check the capacity of LG with 20% extra load. The deflection is measured which should be within the permissible limits. The LG is fitted with Mac alloy steel bars at the end for lifting the segments. The Mac alloy bar has an ultimate failing load of 1035

N/mm^2 and a fatigue detail category of 80. It can be comfortably stressed to 70% (or even up to 80%) of its failing load during installation.

Fig.6 Launching of girders

The Ground Support System (GSS) consists of grid beams and trolleys with a crane of 400 tones capacity. Initially the bed is compacted to desired field density to avoid uneven settlement of GSS.

The sequence of erection is of utmost important to avoid stresses due to erection loads. Initially the first S_1 and last S_{18} i.e., the end segments or the pier segments are erected continued with S_2 and S_{17} and so on.

The segments are glued with Nitobond with 2 mm thick joints. Nitobond consists of a base and hardener which will give 45 minutes to set after mixing. The glue is manually applied to the either side of joint. Temporary stressing is applied to closing the joints properly. On an average 39.7 kg of glue is spared for each joint.

The sequence is as here under:

S_1																S_{18}
S_1	S_2														S_{17}	S_{18}
S_1	S_2	S_3												S_{16}	S_{17}	S_{18}
S_1	S_2	S_3			S_6	S_7	S_8			S_{11}	S_{12}	S_{13}			S_{16}	S_{17}	S_{18}
S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}	S_{11}	S_{12}	S_{13}	S_{14}	S_{15}	S_{16}	S_{17}	S_{18}

A total of 27 tendons of 15.8 mm diameter are inserted through the plain HDPE ducts for post tensioning. In the first stage 12 tendons, 6 Nos either side are stressed so as to make the span self-supporting i.e., to carry the Dead Load (DL).

The jacks for post tensioning are calibrated and simultaneous stressing is done on both LHS and RHS. The capacity of the jacks are 650 tones and the elongation of the tendons are 350 mm. The suspenders during erection are removed after first stage of post tensioning. In the second stage 11 tendons are stressed in view of Live Load (LL) and super imposed loads. 4 tendons are spared for future in case of any loss in post tensioned stresses. The post tensioning pressure is 440 tons.

The interval of expansion joints is increased to every 3 spans i.e., 180 m c/c thereby avoiding a bumpy ride at high speeds.

MATERIALS & QUALITY CONTROL:

A batching plant with ready mix concrete is present. All materials are tested in the Quality Control Laboratory before reaching the batching plant. The fine aggregate i.e., sand is dredged from the river bed by suction into boats.

The coarse aggregate is procured from the Anathavaram village, Thullur Mandal, Guntur district. Coarse Aggregate of 20 mm down size is used to enable pumping of concrete in dense reinforcement mesh. Cement from reputable companies were procured. Supplementary Cementetious Materials (SCM) like fly ash are used up to 30% replacement to cement adhering to the design mix standards. Concrete admixtures from FOSROC company were employed for cost effective high strength concrete. All segments are casted in the Casting yard and later on stacked in the stacking yard before lifting to the launching yard.

World Quality Month is an annual celebration that takes place in the month of November. The month highlights the importance of quality management in organizations across different industries. It also promotes the use of quality tools within businesses and communities. It was celebrated with grandeur at the Quality control laboratory at the construction site.

For maintain a good quality concrete as per the design mix, a minimum of 6 cubes are casted for a frequency of 5 cum of concreting out of which 3 are tested for 7 days and 3 are tested for 28 days strength. An increase in 3 test cubes was observed for 10 cum of concrete out of which 3 are tested for 7 days and 6 are tested for 28 days strength. About 70% strength is to be attained during 7 days and 100% strength for 28 days strength.
Two curing tanks are allocated for curing the test cubes casted during every phase of concreting. The curing tanks are cleaned at regular intervals to prevent

moss formation. IS 9013-1978 Indian Standard for Method of making, curing and determining compressive strength of accelerated cured concrete test specimens is followed.

The laboratory is ISO certified. All tests for the cement, fine aggregate, coarse aggregate and steel specimens are performed at regular intervals.

		
Casting of specimens	**Curing of specimens**	**Testing of specimens**

SAFETY:

Utmost importance is given to the safety protocol to be followed by the site personnel. Necessary sign boards with safety first slogans were also erected in the site. We were also asked to wear the (helmet and jacket) Personal Protective Equipment (PPE) for our own safety. Safety precautions to be in groups, avoid heights and selfies were given in the first instance of our arrival.

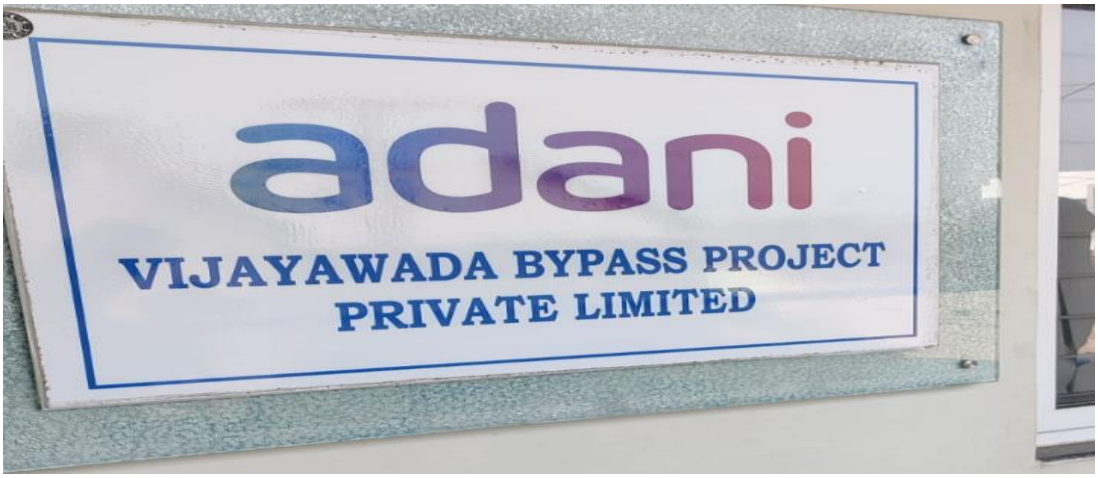
HOSPITALITY:

All the site personnel have shown eagerness to transfer the knowledge to the student community by encouraging us to ask doubts whatsoever. They were kind enough to serve us delicious lunch themselves at their corporate office at Mandadam village, Thullur Mandal which we enjoyed.

Special thanks are due to **Sri Parvatheesam, Project Director, NHAI** who extended a warm welcome at the entry point of the camp site. On completion of the tour, he joined us for chai, where he gave us an inspiring farewell speech on the scope of civil engineering jobs in the future and advised us to passionately pursue our studies with regular touch with the ongoing projects nearby.

The efforts of the site personnel of **Adani Enterprises and Navayuga Engineering Company** by making a power point presentation of the work which included videos of drilling of liners for piles, tremie pipes, conducting

Winch test, concreting of pier foundation, erection of segments with LG & GSS etc is highly appreciated.



The magnum opus across River Krishna near Amaravathi, Guntur District is a cynosure for all eyes. It is a must see for everybudding civil engineer and a monument to cherish for all the civil engineering fraternity.

Group Photo

Explain about Project at site and presentation at Office

Vijayawada bypass project pvt.Ltd(VBPPL) adani

Six lanning of Vijayawada Bypass from Gollapudi (Design Ch.30+000) to Chinnakakani (Design Ch.47.881) including major bridge across river krishna in Vijayawada Gundugolanu section of NH-16 in the state of Andhra Pradesh under Bharatmala Pariyojana on Hybrid Annuity Mode (Pkg. IV)

HSE INDUCTION TRAINING

Name of site	VBPPL
Contractor Name/Sub Contractor Name	V R Siddhartha College
Date & Duration	27/11/2023 3 months
Name of Trainer	T. V. [illegible]

Sl.No	Name of the Person	Designation	Organization	Signature
1.	DR P.K. Prasanna	Asst. Prof	VR Siddhartha Engg college	
2.	Dr. K. Hemanth	Asst. Prof.	VRSEC	
3.	B. Sri Vyshnavi	Student	VRSEC	
4.	P. Jyothi	Student	VRSEC	P. Jyothi
5	K. Naga Priyanka	Student	VRSEC	K. Naga Priyanka
6.	Ch. Sangeetha	Student	VRSEC	
7	A. Akhilandeeswari	Student	VRSEC	
8	N. Bhavani	Student	VRSEC	N. Bhavani
9	G. Vaishnavee	Student	VRSEC	
10	A. OMKAR	Student	VRSEC	A. OMKAR
11	1			

Signature of the Trainer

Format No. :NEC/HSE/FR/25/00

Vijayawada bypass project pvt.Ltd(VBPPL) adani

Six lanning of Vijayawada Bypass from Gollapudi (Design Ch.30+000) to Chinnakakani (Design Ch.47.881) including major bridge across river krishna in Vijayawada Gundugolanu section of NH-16 in the state of Andhra Pradesh under Bharatmala Pariyojana on Hybrid Annuity Mode (Pkg. IV)

HSE INDUCTION TRAINING

Name of site	VBPPL
Contractor Name/Sub Contractor Name	V.R Siddhartha College
Date & Duration	27/11/2023 30 mins
Name of Trainer	M. VIJAYA SARAP

Sl.No	Name of the Person	Designation	Organization	Signature
1	N. Bhargavi	Student	VRSEC	N.Bhargavi
2	K. Rohitha	Student	VRSEC	K.Rohitha
3	B. Priyanka	Student	VRSEC	B.Priyanka
4	G. Ashwanth	Student	VRSEC	G.Ashwanth
5	G. Lakshmi Prasad	Student	VRSEC	
6	K. Sri Harsha	Student	VRSEC	K
7	M.S. Jagadeesh	Student	VRSEC	M.J
8	MOHAMMED Ismail Khan	Student	VRSEC	
9	V. Sai Lakshmi	Student	VRSEC	V.S.L
10	Sk. Kasimbi	Student	VRSEC	Sk.Kasim
11	T. Raghu	Student	VRSEC	T.Raghu
12	D. Pavan Kumar	Student	VRSEC	D.Pavan
13	B. Sai Krishna	Student	VRSEC	B.S.K
14	R. Pavan	Student	VRSEC	R.Pavan
15	SK. Khaleel	Student	VRSEC	
16	B. Dilip Kanth	student	VRSEC	Dilip
17	K. Mahima	Student	VRSEC	Mahima

Signature of the Trainer

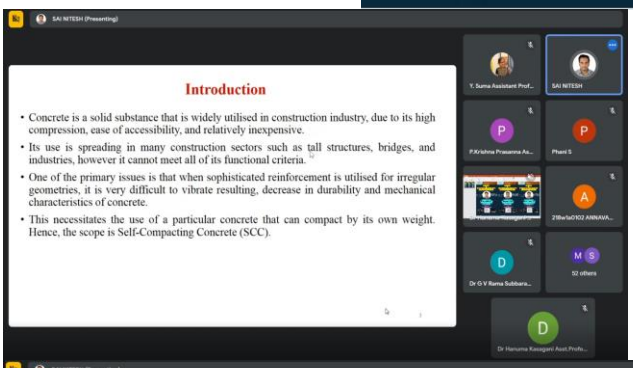
DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

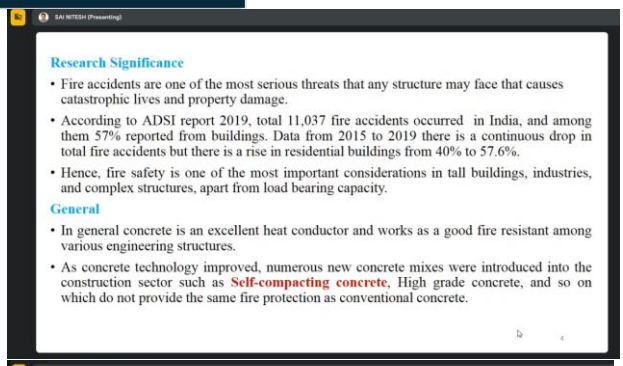
Guest Lecture on " Structural Behavior of Self-Compacting Mortar at Elevated Temperature "

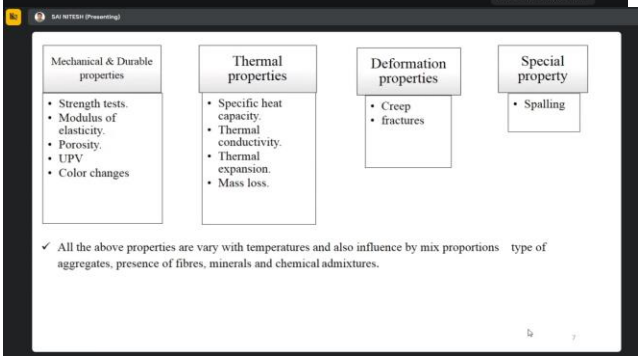
Event Type	Guest Lecture
Date / Duration	03-01-2024 – 9 AM to 10 AM
Resource Person	**Dr. K J N Sai Nitesh, Research Associate (PDRF), Texas state university San Marcos, Texas, USA**
Name of Coordinator	**Dr.Hanuma Kasagani**, Assistant Professor, CED-VRSEC
Target Audience	M.Tech & B.Tech - Students, Faculty members of Civil and Research scholars
Total no of Participants	60
Objective of The-event	Objectives is to provide a comprehensive understanding of the structural behavior of self-compacting mortar at elevated temperatures, catering to the needs of both students seeking foundational knowledge and research scholars delving into advanced investigations within the field.
Outcome of The-event	The outcomes of studying the structural behavior of self-compacting mortar at elevated temperatures for students involves gaining insights into how this material performs under high-temperature conditions. Here are some specific outcomes that students might aim to achieve in such a study: **Assessment of Thermal Stability:** Investigate how self-compacting mortar retains its structural integrity when exposed to elevated temperatures.Identify the critical temperature at which significant structural changes or deterioration occurs. **Mechanical Properties at Elevated Temperatures:** Evaluate changes in compressive strength, tensile strength, and flexural strength of self-compacting mortar as temperature increases. Analyze the impact on other mechanical properties such as modulus of elasticity and Poisson's ratio. **Microstructural Analysis:** Examine the microstructure of self-compacting mortar before and after exposure to elevated temperatures using techniques like scanning electron microscopy (SEM) or X-ray diffraction (XRD). Identify any phase transformations, microcracking, or other changes in the material's internal structure. **Durability Assessment:** Study the durability of self-compacting mortar by evaluating its resistance to thermal cycles and potential degradation at elevated temperatures. Investigate the effect of elevated temperatures on the material's ability to withstand environmental conditions over time. **Fire Performance:** Explore the fire resistance of self-compacting mortar and its ability to act as a barrier to the spread of fire. Assess the material's ability to maintain its load-bearing capacity under fire conditions.
Feedback / Suggestions	M.Tech & B.Tech students and faculty gave positive feedback on the Guest Lecture on SBSCMAET and requested more programmes in this manner.

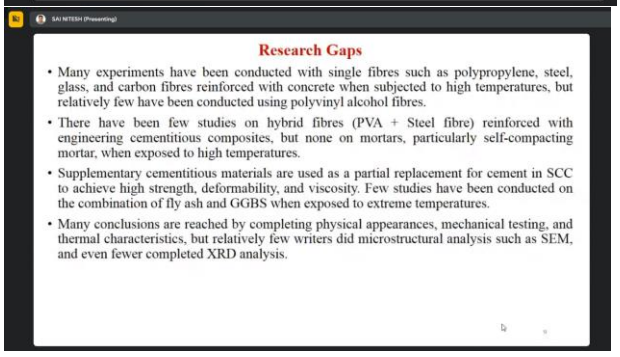
Photos


VRSEC
VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
Department of
Civil Engineering
Guest Lecture
on
" Structural Behavior of Self-Compacting Mortar at Elevated Temperature "
Time: 9-10 AM
3rd Jan 2024
Google Meet Link:
https://meet.google.com/zjc-jryr-ghe
Dr. K J N Sai Nitesh,
Research Associate (PDRF),
Texas state university San Marcos, Texas, USA
Organised by
ICI VRSEC Student Chapter
Dr. K.Hanuma
Assistant Professor,
CED, VRSEC, Coordinator,
ICI-VRSEC-Student-Chapter
I C I
Indian Concrete Institute
ICI VRSEC Student Chapter
Dr. Ch. Srinivas
Dean, Industry Relation
Professor & HoD
CED-VRSEC

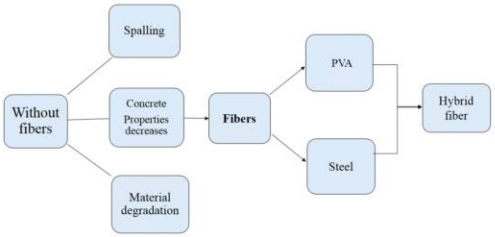

SAI NITESH (Presenting)
Introduction
• Concrete is a solid substance that is widely utilised in construction industry, due to its high compression, ease of accessibility, and relatively inexpensive.
• Its use is spreading in many construction sectors such as tall structures, bridges, and industries, however it cannot meet all of its functional criteria.
• One of the primary issues is that when sophisticated reinforcement is utilised for irregular geometries, it is very difficult to vibrate resulting, decrease in durability and mechanical characteristics of concrete.
• This necessitates the use of a particular concrete that can compact by its own weight. Hence, the scope is Self-Compacting Concrete (SCC).


SAI NITESH (Presenting)
Research Significance
• Fire accidents are one of the most serious threats that any structure may face that causes catastrophic lives and property damage.
• According to ADSI report 2019, total 11,037 fire accidents occurred in India, and among them 57% reported from buildings. Data from 2015 to 2019 there is a continuous drop in total fire accidents but there is a rise in residential buildings from 40% to 57.6%.
• Hence, fire safety is one of the most important considerations in tall buildings, industries, and complex structures, apart from load bearing capacity.
General
• In general concrete is an excellent heat conductor and works as a good fire resistant among various engineering structures.
• As concrete technology improved, numerous new concrete mixes were introduced into the construction sector such as Self-compacting concrete, High grade concrete, and so on which do not provide the same fire protection as conventional concrete.


SAI NITESH (Presenting)
Mechanical & Durable properties
• Strength tests.
• Modulus of elasticity.
• Porosity.
• UPV
• Color changes
Thermal properties
• Specific heat capacity.
• Thermal conductivity.
• Thermal expansion.
• Mass loss.
Deformation properties
• Creep
• fractures
Special property
• Spalling
✓ All the above properties are vary with temperatures and also influence by mix proportions type of aggregates, presence of fibres, minerals and chemical admixtures.


SAI NITESH (Presenting)
Research Gaps
• Many experiments have been conducted with single fibres such as polypropylene, steel, glass, and carbon fibres reinforced with concrete when subjected to high temperatures, but relatively few have been conducted using polyvinyl alcohol fibres.
• There have been few studies on hybrid fibres (PVA + Steel fibre) reinforced with engineering cementitious composites, but none on mortars, particularly self-compacting mortar, when exposed to high temperatures.
• Supplementary cementitious materials are used as a partial replacement for cement in SCC to achieve high strength, deformability, and viscosity. Few studies have been conducted on the combination of fly ash and GGBS when exposed to extreme temperatures.
• Many conclusions are reached by completing physical appearances, mechanical testing, and thermal characteristics, but relatively few writers did microstructural analysis such as SEM, and even fewer completed XRD analysis.

Comparison study under Elevated temperature



Physical tests of Cementious materials

Table 5. Physical Tests of Cement

S. No	Tests	Experimental values	IS code limits	IS code books
1	Fineness test	Percentage of weight retained on 90 microns sieve- 10%	Less than or equal to 10%	IS: 4031(Part-1)-1996
2	Normal Consistency test	34%	25-35%	IS: 4031(Part-4)-1988
3	Initial setting time	30 min	Not less than 30 min	IS: 4031(Part-4)-1988
4	Specific gravity	3.145	3.13-3.16	IS: 1199:1959

Table 6. Physical Tests of Fly Ash and GGBS

S. No	SCM	Consistency	Initial setting time	Specific gravity
1	Fly ash	29%	50 min	3.0
2	GGBS	42%	50 min	2.9

Pictures of Performing Physical Tests


Fig.8 Sieve Analysis


Fig. 9 Performing of consistency test


Fig.10 Consistency tests


Fig.11 Bulk density compacted


Fig.12 Initial setting time


Fig.13 Specific gravity test

Table. 9 Quantity of materials

W/C	Cement (kg/m³)	Fly Ash (kg/m³)	GGBS (kg/m³)	SP %	Water (kg/m³)	Sand (kg/m³)	Fibre dosage %
0.36	697.3	348.77	348.77	0.75-0.80	468	1293.34	0.3,0.6,0.9,1.2

Table. 10 Mix Proportions

Mix	Cement (kg/m³)	GGBS (kg/m³)	Fly ash (kg/m³)	Fine aggregate (kg/m³)	Water	Water-cement ratio	PVA (kg/m³)	Steel (kg/m³)
D0	0.2454	0.1227	0.1227	0.455	0.156	0.36	-	-
D0.3HF	0.2454	0.1227	0.1227	0.455	0.156	0.36	2.057	12.42
D0.6HF	0.2454	0.1227	0.1227	0.455	0.156	0.36	4.11	24.84
D0.9HF	0.2454	0.1227	0.1227	0.455	0.156	0.36	6.12	37.26
D1.2HF	0.2454	0.1227	0.1227	0.455	0.156	0.36	8.3	49.69

Fig.18 a. Slump Test

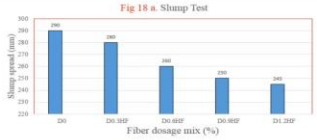


Fig. 18 b. V-funnel Test

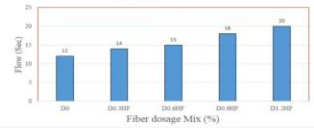



Fig.19 Adding of fibers


Fig.20 Dry mix with PVA


Fig.21 Dry mix with HF


Fig. 22 Hand Mixing


Fig. 23 a-d. Measuring of Slump spread

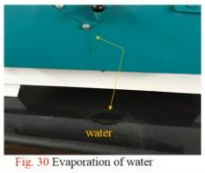


Fig. 30 Evaporation of water


Fig. 31 Removing of cubes


Fig. 32 Placing of cubes


Fig. 33 Cubes at 750°C


Fig. 34 Removing of cubes


Fig. 35 Equally distributed

Fig.36 Heated samples






Fig. 37 Checking of Mass Loss Fig. 38 Operating of UPV Fig.39 Operating of Compression test

NDT AND MECHANICAL RESULTS

Table. 12 Mass loss (gm)

Fiber dosage	Unheated	250°C	500°C	750°C
D0	690	670	680	650
D0.3HF	765	680	685	690
D0.6HF	775	695	675	665
D0.9HF	740	685	665	675
D1.2HF	778	670	695	655

Table. 13 UPV (Km/sec)

Fiber dosage	Unheated	250°C	500°C	750°C
D0	4.41	3.94	3.44	1.09
D0.3HF	4.05	3.95	3.44	0.96
D0.6HF	4.03	3.92	3.33	1.17
D0.9HF	3.95	3.32	3.20	1.72
D1.2HF	4.03	3.92	3.15	1.34

Table. 14 Compressive Strength (MPa)

Fiber dosage (%)	Unheated (MPa)	250°C(MPa)	500°C (MPa)	750°C(MPa)
D0	32.15	42.634	36.11	15.04
D0.3HF	49.15	52.16	35.10	22.5
D0.6HF	46.14	50.16	41.14	19.56
D0.9HF	47.3	55.17	40.62	25.07
D1.2 HF	52.16	54.15	42.16	25.58

Fig. 41 a UPV Test

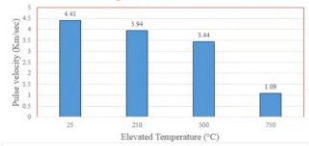
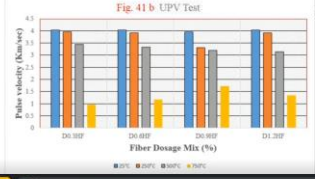


Fig. 41 b UPV Test



Results and Discussions

- Test was performed according to IS 516 (Part 5/Section-1) 2018 and direct method was performed.
- There is decrease with increase in temperature up-to 750°C which indicates that initiation of cracks and increase in porosity that leads to degradation of strength.
- Comparing all mixes of UPV values from 250°C to 500°C to their respective unheated mixes, there is a progressive drop, but at 750°C, there is a sudden fall of 56% to 76% as shown in Fig 41 a and Fig 41 b.

Fig. 42 a Compression test

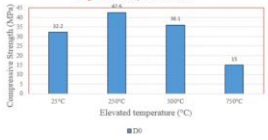
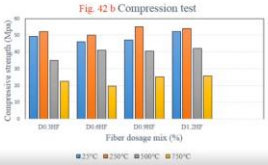


Fig. 42 b Compression test



Results and Discussions

- Fig 42. a, shows reference mix without adding fibers and with increase in temperature there is a loss of strength due to evaporation of moisture content that leads to the increase in porosity and that develops cracks and melting of C-S-H and C-H.
- But at 250°C there is a increase of strength of 30% because of modification of cement paste hydrates.
- After adding fibers as in shown in Fig 42. b, strength was increase drastically from 52%-62% and highest was recorded for D1.2HF.
- Important strength gain was noted at 25ß2°C it was about 4%-17% compared to respective unheated mixes.
- In Presence of HF Strength drop was less compared to D0 mix even at 750°C.

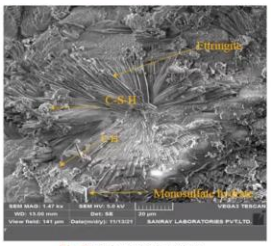


Fig.43 Unheated D0 at 20µm

Microstructure of hydrated cement paste

- ✓ Bogues compounds
- ✓ When cement is added to water it undergoes hydration by interaction of calcium, sulfate, aluminate, and hydration ions and the needle shaped calcium tri-sulfoaluminate hydrate called **Ettringite** is first appeared.
- ✓ After few hours ettringite becomes unstable and forms a hexagonal plate morphology which is called as **Monosulfate hydrate.**
- ✓ In addition, a well hydrated cement paste shows the **C-S-H(tobermorite gel) and C-H(portlandite gel)**
- ✓ C-S-H Gel occupies about 50 to 60% of total volume of well hydrated cement paste which plays a key role in maintain long term strength and durability. While C-H gel makes 20 to 25%, the contribution of strength is less compared with C-S-H gel

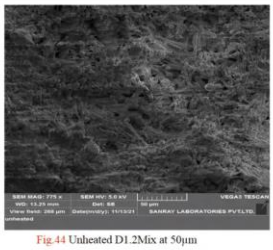


Fig.44 Unheated D1.2Mix at 50µm

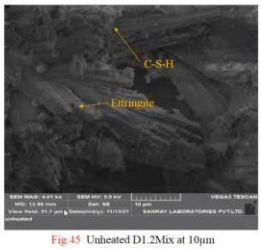
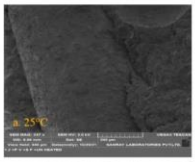
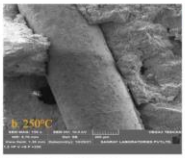
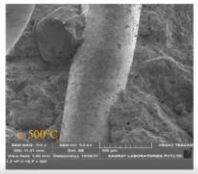


Fig.45 Unheated D1.2Mix at 10µm

- As shown in Fig. 44 it shows a thick micro structure of mortar because of addition of fly ash and GGBS.







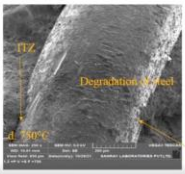
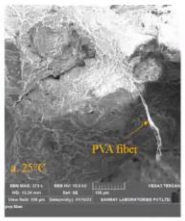
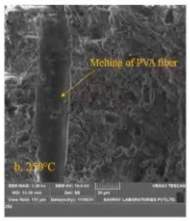


Fig.46 a,b,c,d Steel fiber at 25°C, 250°C, 500°C, 750°C of 200µm

- No degradation was happened to steel up-to 500°C but at 750°C degradation of fiber started.
- With the help of steel fibers it acted as a bridging effect which arrested the cracks and improved the compressive strength.





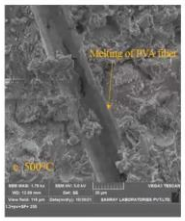


Fig.47 a,b,c D1.2Mix at 100µm, melting of PVA fibers of D1.2 at 20µm at 250 and 500°C

- As shown in Fig. 47 b, melting of PVA which helped to pass the moisture content through channels and avoids the spalling.

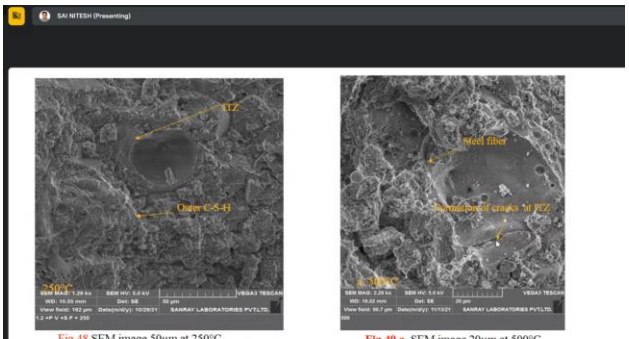


Fig.48 SEM image 50µm at 250°C

Fig.49 a. SEM image 20µm at 500°C

- As shown in Fig. 48 some important strength gain was noticed at 250°C because of improvement of bonding properties.

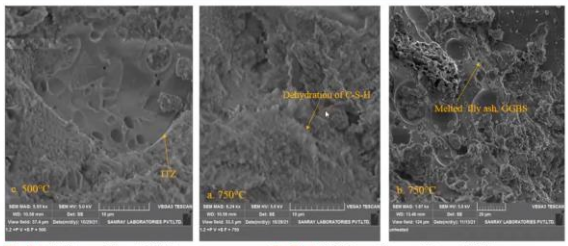


Fig.49 b. SEM image 10µm at 500°C

Fig.50 a,b. SEM image 10µm and 20µm at 750°C

XRD Results

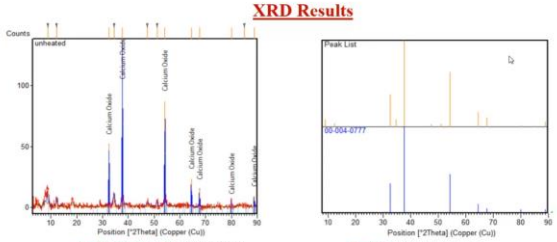


Fig. 50. a and Table. 12 XRD Result D1.2HF (Unheated)

Fig. 50. b XRD Result comparison

Visible	Ref. Code	Score	Compound Name	Scale Factor	Chemical Formula
1.	00-004-0777	84	Calcium Oxide	1.078	Ca O

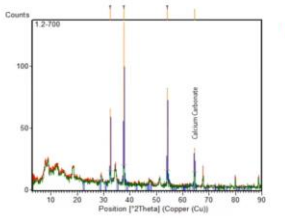


Fig.50.e and Table. 15 XRD Result D1.2HF (750°C)

Visible	Ref. Code	Score	Compound Name	Scale Factor	Chemical Formula
1.	00-005-0586	No Matching Lines	Calcium Carbonate	0.000	$Ca C O_3$

Results

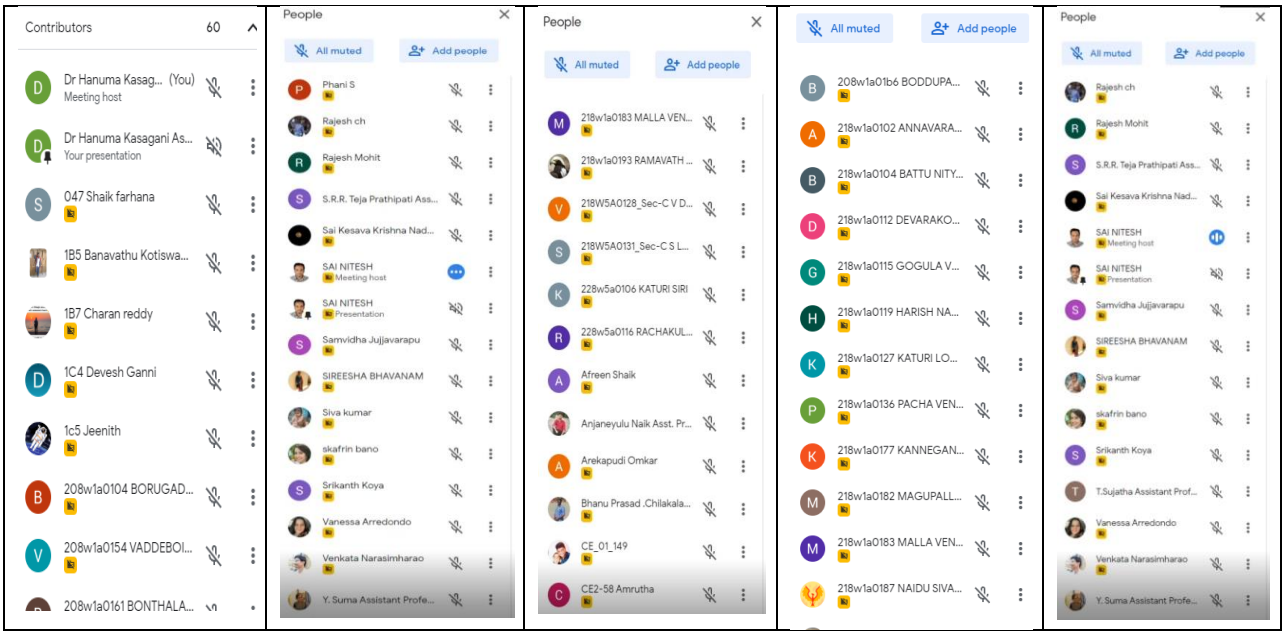
- As increasing the temperature chemical composition is reducing and calcium oxide is identified in higher dosages.
- At 250°C an important chemical is identified along with CaO i.e. calcium iron silicate reason for improvement of strength at 250°C
- At 750°C specimen turned to complete with layer which is due to the CaO reacts with atmosphere i.e. CO_2 and changes to $Ca CO_3$ which was identified

SAI NITESH (Presenting)

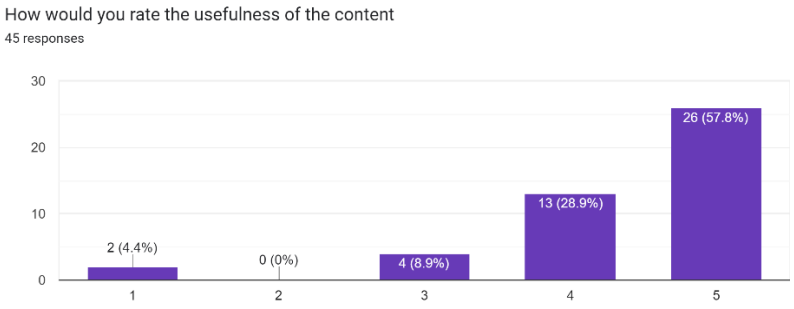
Conclusions

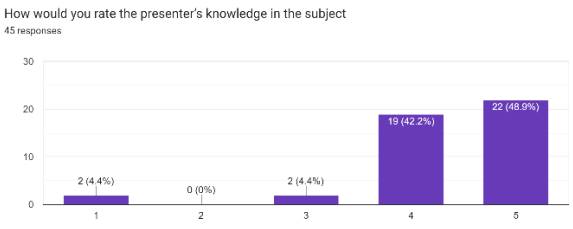
- The D0.3HF mix had the highest slump flow of 280mm and the shortest V-funnel time of 14 seconds.
- Adding hybrid fibres to self-compacting mortars with the D0 mix at room temperature resulted in strength gains of 52.87%, 43.54%, 47.12%, and 62.23%. Strength loss was less in the presence of hybrid fibres when compared to the reference mix (D0), even at 750 °C.
- Steel fibre at 500°C was observed at ITZ, which aided in the arrest of cracks and the maintenance of strength. The melting of PVA helped in the prevention of spalling by forming more channels, as evidenced by SEM analysis.
- Significant strength gains of 5%-17% are noticed at 250°C in all the mixes because of an improvement in the bond properties at the ITZ, which was observed by SEM image.
- The new chemical formations were identified in XRD analysis with an increase in temperature. Calcium iron silicate and iron hydroxide sulphate were found at 250°C, along with calcium oxide and oxygen, which may be the reason for the strength. By increasing temperature to 500°C chemical compounds reduced and strength decreases.

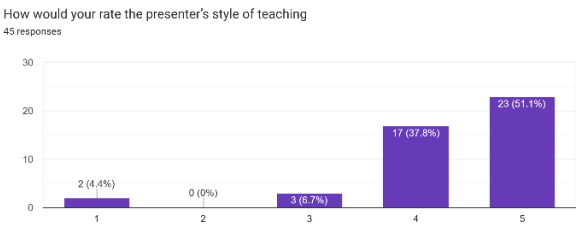
Attendance:



Feedback:

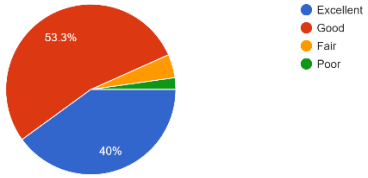






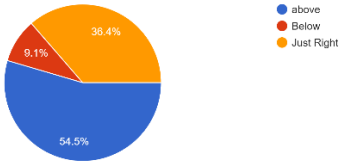
How would you rate the presenter

45 responses



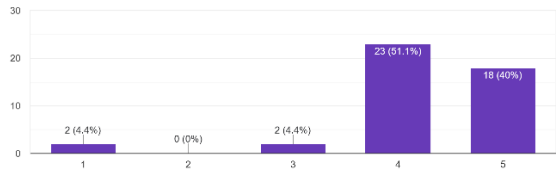
Was the Guest Lecture on "Structural Behavior of Self-Compacting Mortar at Elevated Temperatures." above or below your current skill level?

44 responses



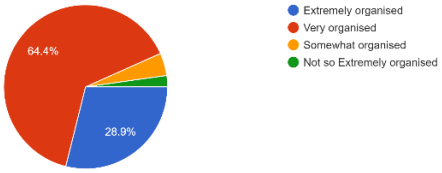
Overall, how would you rate the Guest Lecture on "Structural Behavior of Self-Compacting Mortar at Elevated Temperatures."

45 responses



How organised was the Guest Lecture on "Structural Behavior of Self-Compacting Mortar at Elevated Temperatures."

45 responses



Dr. Hanuma Kasagani
Assistant Professor,
CED-VRSEC, Coordinator
ICI-VRSEC-Student-Chapter

Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CED-VRSEC

DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE
COLLEGE (AUTONOMOUS)
VIJAYAWADA – 520 007

Sri B.V.Krishna Rao Endowment Lecture on " Research, Innovation and Applications " by Prof. A. Meher Prasad, Department of Civil Engineering, IIT Madras, Chennai, India

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Event Type	***Sri B.V.Krishna Rao Endowment Lecture***
Date / Duration	09-01-2024 – 10: AM to 1:10 PM
Resource Person	**Prof. A. Meher Prasad, Department of Civil Engineering, IIT Madras, Chennai, India**
Name of Coordinator	**Dr.Hanuma Kasagani**, **Dr. N. Malathi,** Assistant Professor, CED-VRSEC
Guests	**Principal Dr.A.V.Ratna Prasad, Dean Student Affairs Dr.Panduranga Rao , Head, Civil Engineering Department Dr.Chava Srinivas**
Target Audience	M.Tech & B.Tech - Students, Faculty members of Civil and Research scholars
Total no of Participants	90
Objective of The-event	The objectives of research, innovation, and applications for students go beyond academic achievement, aiming to equip them with a diverse set of skills, a sense of responsibility, and a passion for lifelong learning and contribution to society.
Outcome of The-event	Prof. A. Meher Prasad's shared experiences on Glass fiber mixed gypsum precast and prefabricated buildings (GFRG), 3D Printed concrete Structures, Base Isolation systems with the students of B.Tech and M.Tech. He also emphasized the future of precast construction techniques, issues and challenges during seismic activity, and probable solutions to counter situations: **Glass fiber Mixed Gypsum Precast and Prefabricated Buildings (GFRG):** Prof. A. Meher Prasad shared valuable insights and experiences with students regarding GFRG, a construction material that combines glass fibers and gypsum. He likely discussed the unique properties, advantages, and applications of GFRG in precast and prefabricated buildings. Students may have gained knowledge on the structural and environmental benefits associated with this innovative material. **3D Printed Concrete Structures:** The professor delved into the world of 3D printed concrete structures, providing students with an understanding of the cutting-edge technology

	involved. Discussions may have covered the potential applications of 3D printing in construction, its advantages, challenges, and the impact on traditional building methods. **Base Isolation Systems:** Prof. A. Meher Prasad likely shared his expertise on base isolation systems, a seismic retrofitting technique used to protect structures during earthquakes. Students would have learned about the principles behind base isolation, its effectiveness, and real-world applications. Practical examples and case studies may have been explored to illustrate the importance of this seismic resilience strategy. **Future of Precast Construction Techniques:** Emphasizing the future trends in precast construction, Prof. A. Meher Prasad may have discussed advancements, emerging technologies, and evolving methodologies within the field. This insight into the future of precast construction prepares students for upcoming challenges and opportunities in the industry. **Issues and Challenges During Seismic Activity:** Prof. A. Meher Prasad likely addressed the specific challenges and vulnerabilities associated with precast construction techniques during seismic events. This could include discussions on structural integrity, material behavior, and potential risks posed by earthquakes to precast structures. **Probable Solutions to Counter Situations:** A crucial part of the discussion would have focused on potential solutions and strategies to mitigate the challenges posed by seismic activity in precast construction. Prof. A. Meher Prasad may have shared engineering approaches, innovative designs, or retrofitting techniques aimed at enhancing the seismic resilience of precast structures. **Interactive Learning Experience:** The session would have provided an interactive learning experience for students, allowing them to ask questions, engage in discussions, and seek clarification on complex concepts. This interactive approach fosters a deeper understanding and appreciation for the topics discussed. **Integration of Theory and Practice:**

	Prof. A. Meher Prasad likely integrated theoretical concepts with practical examples and case studies, providing students with a holistic understanding of the real-world applications of GFRG, 3D printing, base isolation systems, and precast construction techniques. **Encouragement of Critical Thinking:** By emphasizing the challenges and potential solutions, Prof. A. Meher Prasad encouraged students to think critically about engineering problems. This approach stimulates intellectual curiosity and helps students develop problem-solving skills. **Preparation for Industry Challenges:** The insights shared by Prof. A. Meher Prasad prepare students for the challenges they may encounter in the civil and structural engineering industry, particularly in the context of seismic-resilient construction practices. **Inspiration for Further Research:** The discussions on innovative construction techniques likely inspired students to explore further research opportunities in areas such as GFRG, 3D printing, and seismic retrofitting. Prof. A. Meher Prasad's experiences may have sparked a passion for research and innovation among the students.
Feedback / Suggestions	M.Tech & B.Tech students and faculty gave positive feedback on the Guest Lecture on SBSCMAET and requested more programmes in this manner.

Program Schedule

10:30AM	Inviting Guest on to the Dais
10:32 AM-10:35AM	Speech by **Prof. ChavaSrinivas** , Head of the Department and Dean R&D relation, V.R. Siddhartha Engineering College
10:35 AM-10:40 AM	Speech by **Prof. B. Panduranga Rao**, Dean Student Affairs, Dept. of Civil Engg., V.R. Siddhartha Engineering College
10:40 AM to 10:45 AM	Brief Introduction about the Today's Chief Guest **Prof. *A. Meher Prasad*** *by* ***Dr. Lakshmi Keshav****, Associate Professor, CED,*

	VRSEC
10:45 AM to 12:45 PM	Delivering Lecture by **Prof. A. Meher Prasad**, Department of Civil Engineering, IIT Madras, Chennai, India
12:45 PM to 1:00 PM	Felicitation of Guest of Honor; **Prof. A. Meher Prasad** by **Prof. Chava Srinivas** and **Prof. B. Panduranga Rao**
1:00 PM to 1:10 PM	Vote of Thanks by **Dr. N. Malathi**, Assistant Professor,

Dr. K. Hanuma extends a warm welcome to the esteemed Guest of Honor, Prof. A. Meher Prasad from the Department of Civil Engineering at IIT Madras.

The event is graced by the presence of Dr. Lakshmi Keshav, Associate Professor, CED, VRSEC, who invites Prof. Chava Srinivas, Head of the Department and Dean R&D Relations, V.R. Siddhartha Engineering College, and Prof. B. Panduranga Rao, Dean Student Affairs, Dept. of Civil Engg., V.R. Siddhartha Engineering College, to join the distinguished Guest of Honor on the dais.

Prof. Chava Srinivas takes the opportunity to address the students, emphasizing the significance of research, innovation, and applications in the field of civil engineering. Following this, Prof. B. Panduranga Rao shares his thoughts on the Sri B.V. Krishna Rao Endowment Lecture, recalling fond memories with his father and inspiring students toward a brighter future.

Prof. Meher Prasad enriches the event by sharing his extensive experiences in the field. He covers a range of topics, including Glass Fiber Mixed Gypsum Precast and Prefabricated Buildings (GFRG), 3D Printed Concrete Structures, and Base Isolation Systems. Prof. Meher Prasad also delves into the future of precast construction techniques, addressing issues and challenges during seismic activity and providing probable solutions to counter these situations.

The ceremony takes a moment to honor the late Sri B.V. Krishna Rao as Prof. Chava Srinivas, Prof. B. Panduranga Rao, Principal Dr. A.V. Ratna Prasad, and Prof. Meher Prasad collectively launch his biography.

Expressing gratitude, Prof. Chava Srinivas, Prof. B. Panduranga Rao, and Principal Dr. A.V. Ratna Prasad felicitate Prof. Meher Prasad with a shawl and a memento.

Dr. N. Malathi then takes the stage to summarize the event and extends a heartfelt vote of thanks for the Sri B.V. Krishna Rao Endowment Lecture. She expresses appreciation to the Head of the Institute/Principal VRSEC, Prof. A.V. Ratna Prasad, and HOD CE, Prof. Chava Srinivas, for providing the opportunity to organize the Sri B.V.Krishna Rao Endowment Lecture on "

Research, Innovation and Applications " under ICI-VRSEC Student Chapter and Institutions Innovation Council.

Dr. Malathi extends gratitude to Prof. A. Meher Prasad for accepting the invitation to deliver the lecture on "Research, Innovation, and Applications" under the ICI-VRSEC student chapter and Institutions Innovation Council. She concludes by thanking the students and faculty members for their active participation in making the event a success.

Photos


SIDDHARTHA ENGINEERING COLLEGE
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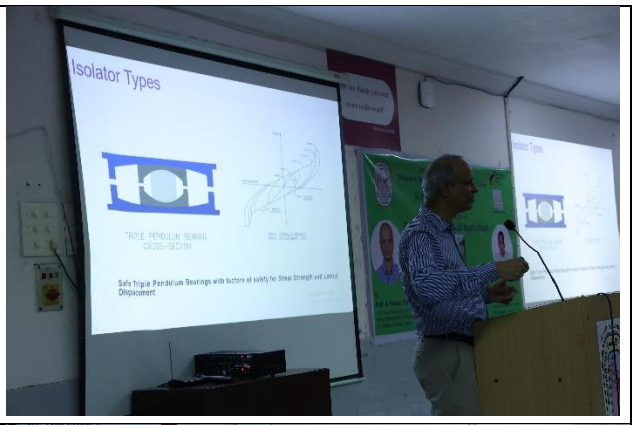
esearch, Innovation and Applications


Base isolator testing
VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE


Isolator Types

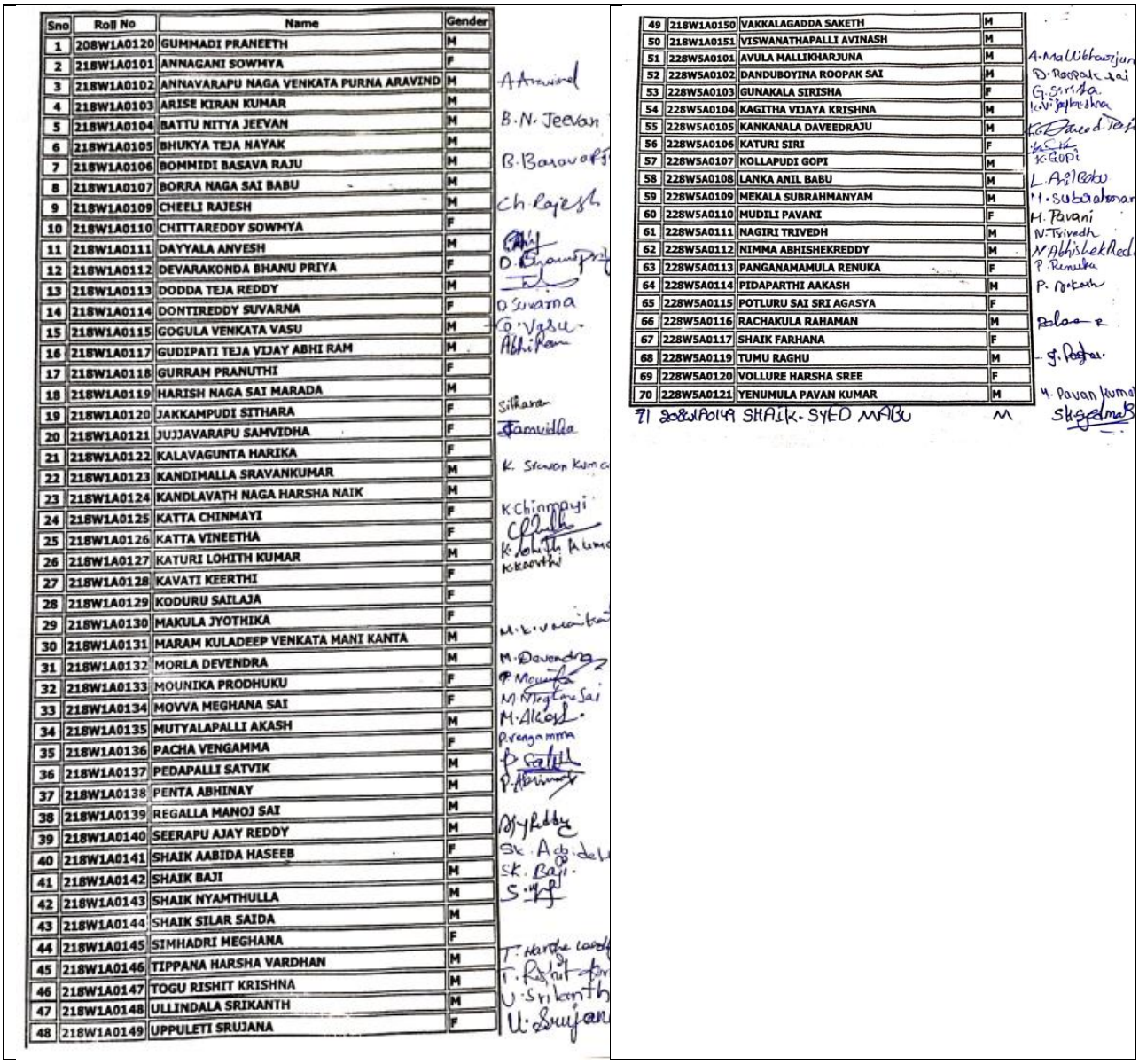

Transformation and Growth: Giving Back to Society
VELAGAPUDI RAMAKRISHNA


to see in the world"
Lecture


Innovation and Applications


Research, Innovation and Applications
Lecture

Attendance:



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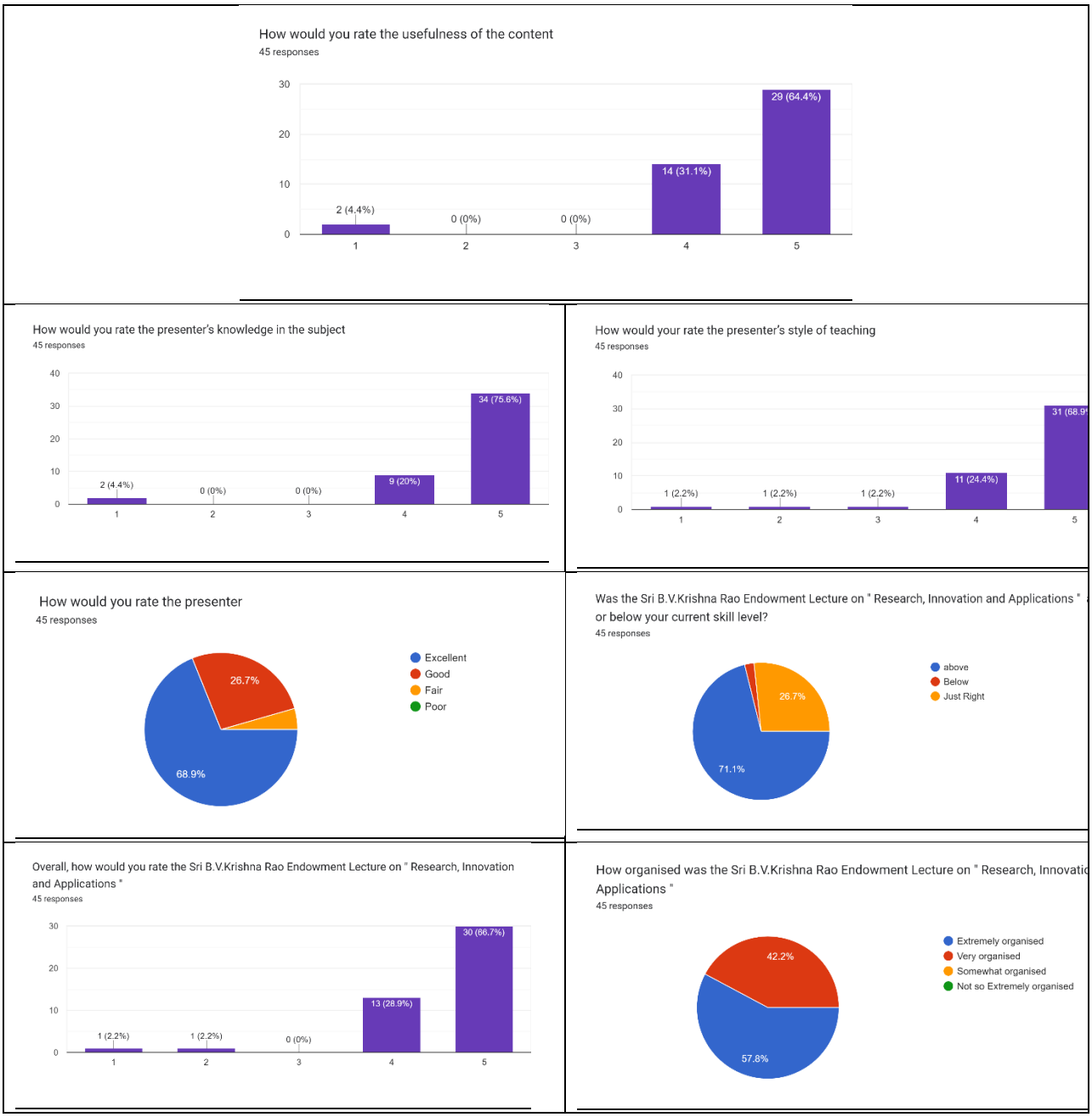
Feedback:



Dr. Hanuma Kasagani
Assistant Professor,
CED-VRSEC, Coordinator
ICI-VRSEC-Student-Chapter

Dr. N. Malathi,
Assistant Professor,
CED-VRSEC, Coordinator

Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CED-VRSEC

DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

Guest Lecture on "Sustainability in Cement Industry and Soft Skills Required for CE Students"

Event Type	Guest Lecture
Date / Duration	06-02-2024 – 11:30 AM to 1:00 PM
Resource Person	**Sri Uppaluri Murali Krishna, Deputy General Manager, Zuari Cement Ltd, Hydarabad**
Name of Coordinator	**Dr.Hanuma Kasagani**, Assistant Professor, CED-VRSEC
Target Audience	M.Tech & B.Tech - Students, Faculty members of Civil and Research scholars
Total no of Participants	80
Objective of The-event	Guest lecture aims to bridge the gap between theoretical knowledge and practical industry applications. It aspires to equip students with a holistic understanding of sustainability issues in the cement sector while emphasizing the importance of developing soft skills that are integral for their overall professional growth and success in the field of civil engineering.
Outcome of The-event	Guest Lecture on "Sustainability in the Cement Industry and Soft Skills Required for Civil Engineering Students" is expected to yield several positive outcomes for the students: to empower students with a comprehensive understanding of sustainability in the cement industry and equip them with the soft skills necessary for a successful and impactful career in civil engineering. **Enhanced Understanding of Sustainability in Cement Industry:** Increased awareness about the environmental impact of the cement industry. Improved knowledge of sustainable practices and technologies employed in cement production. Heightened sensitivity towards reducing carbon footprint and implementing eco-friendly initiatives in the industry. **Development of Soft Skills:** Increased awareness of specific soft skills such as effective communication, teamwork, leadership, and problem-solving. Practical tips and guidance on how to develop and enhance these soft skills for career success. **Career Readiness:** Improved understanding of the industry's expectations regarding sustainability practices and soft skills. Increased preparedness for entering the workforce with a well-rounded skill set. Enhanced confidence in navigating professional challenges and opportunities.
Feedback / Suggestions	M.Tech & B.Tech students and faculty gave positive feedback on the Guest Lecture on Sustainability in Cement Industry and Soft Skills Required for CE Students and requested more programmes in this manner.

Photos


Department of Civil Engineering
Velagapudi Ramakrishna
Siddhartha Engineering College
IGBC
Welcome you all to join the guest lecture on
Sustainability in Cement Industry and
Soft Skills Required for CE Students
Time: 11.30 am, 06 February 24
Venue: CE Seminar Hall
By
Sri U Murali Krishna
Deputy General Manager
Zuari Cements Ltd, Hyderabad
Organized by:
IGBC VRSEC Student Chapter &
ICI VRSEC Student Chapter


Vijayawada,AP,India
Siddardha Engineering College, Vijayawada,
520007, AP, India
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02/06/2024 11:30 AM GMT+05:30
Note : Captured by GPS Map Camera


Heidelberg Materials
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Siddardha Engineering College, Vijayawada,
520007, AP, India
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Heidelberg Materials

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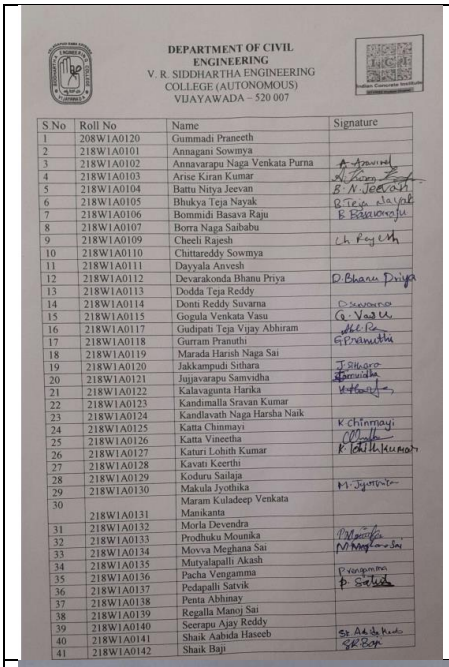

DEPARTMENT OF CIVIL ENGINEERING
V. R. SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS)
VIJAYAWADA – 520 007

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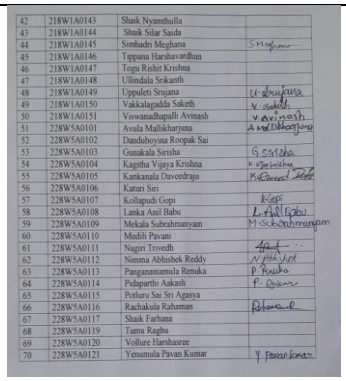

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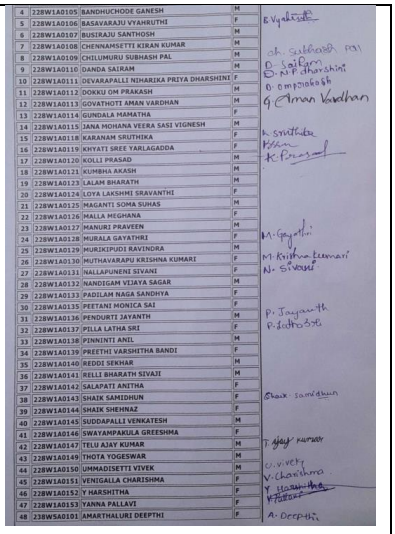

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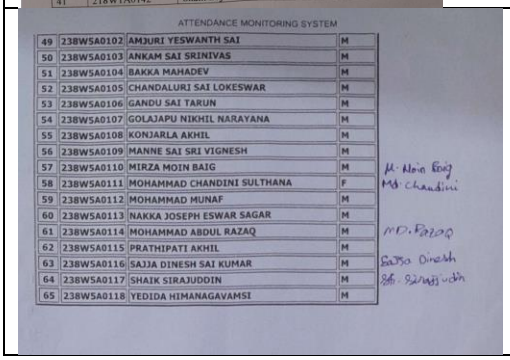
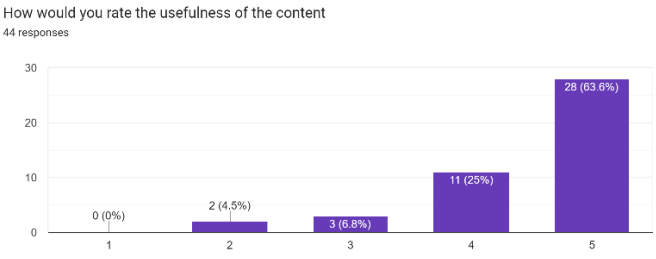
44	228W1A0150	UMMADISETTI VIVEK	M
45	228W1A0151	VENIGALLA CHARISHMA	F
46	228W1A0152	Y HARSHITHA	F
47	228W1A0153	YANNA PALLAVI	F
48	238W5A0101	AMARTHALURI DEEPTHI	F

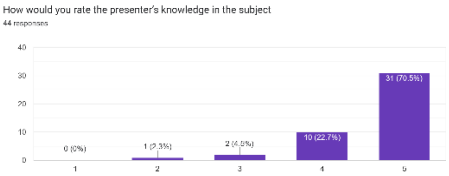


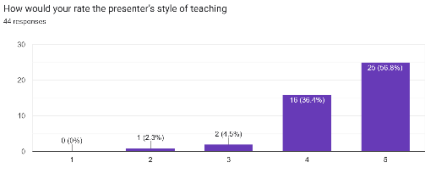
ATTENDANCE MONITORING SYSTEM

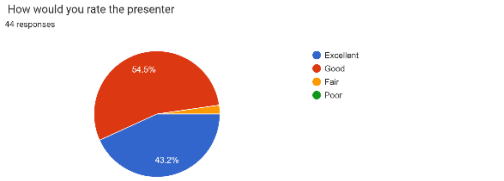
49	238W5A0102	AMJURI YESWANTH SAI	M
50	238W5A0103	ANKAM SAI SRINIVAS	M
51	238W5A0104	BAKKA MAHADEV	M
52	238W5A0105	CHANDALURI SAI LOKESWAR	M
53	238W5A0106	GANDU SAI TARUN	M
54	238W5A0107	GOLAJAPU NIKHIL NARAYANA	M
55	238W5A0108	KONJARLA AKHIL	M
56	238W5A0109	MANNE SAI SRI VIGNESH	M
57	238W5A0110	MIRZA MOIN BAIG	M
58	238W5A0111	MOHAMMAD CHANDINI SULTHANA	F
59	238W5A0112	MOHAMMAD MUNAF	M
60	238W5A0113	NAKKA JOSEPH ESWAR SAGAR	M
61	238W5A0114	MOHAMMAD ABDUL RAZAQ	M
62	238W5A0115	PRATHIPATI AKHIL	M
63	238W5A0116	SAJJA DINESH SAI KUMAR	M
64	238W5A0117	SHAIK SIRAJUDDIN	M
65	238W5A0118	YEDIDA HIMANAGAVAMSI	M

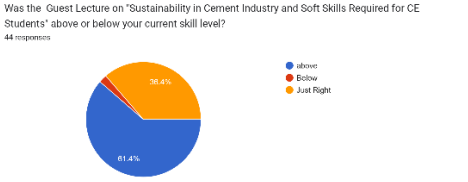
Feedback:

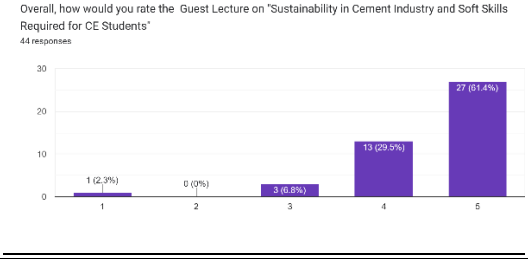


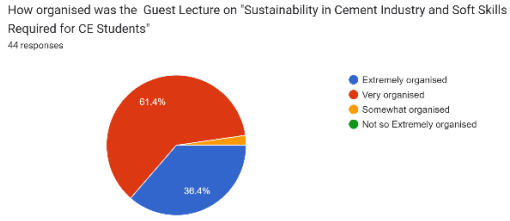












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