

V R SIDDHARTHA ENGINEERING COLLEGE (Autonomous)

Department of Civil Engineering



Dt: 25.08.2022

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 &	Position in Student
		Section	Executive Council
1	Uppuluri Harshith Chowdary (198W1A01B0)	IV/IV Sec-B	President
2	Boilla Charan kumar Reddy (208W1A01B7)	III/IV Sec-C	Vice President
3	Vemula Narasimha Naidu (208W1A01G1)	III/IV Sec-C	Secretary-1
4	Sure Lohith Sai (218W5A0131)	III/IV Sec-C	Secretary-2
5	Mandala Sudha (208W1A0188)	III/IV Sec-B	Joint Secretary-1
6	Majety Karthikeyan (208W1A01D9)	III/IV Sec-C	Joint Secretary-2
7	Kancharla Kruthika (208W1A01D1)	III/IV Sec-C	Treasurer-1
8	Akurathi Gayatri (208W1A01C6)	III/IV Sec-A	Treasurer-2
9	T. Siva Gopi Raju (198W1A01A6)	IV/IV Sec-B	Student-Coordinator
10	P. Jagadeesh (198W1A0199)	IV/IV Sec-B	Student-Coordinator
11	Mohammad Afreen (208W1A01E3)	III/IV Sec-C	Student-Coordinator
12	Shaik Mohammad Ashraf jaid (198W1A01A4)	IV/IV Sec-B	Student-Coordinator
13	Kasukurthi Mahesh Babu (208W1A01D4)	III/IV Sec-C	Student-Coordinator
14	Katta Chinmayi (218W1A0125)	II/IV Sec-A	Student-Coordinator
15	Movva Meghana Sai (218W1A0134)	II/IV Sec-A	Student-Coordinator
16	Dayyala Anvesh (218W1A0111)	II/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 2022-2023

S.No	Professional Chapter	Type of Event	Date	Event Name	Participants	International/ National/State	Outcome/Impact
1	ICI-VRSEC	Field visit	26 -07-2022	Field visit- Construction Techniques	50	State	Traditional buildings will require a lot of extra effort and money to make it sustainable to the effects of nature. Concrete can be affected over time by chemicals and water while it gets chilled in the winters. Traditional construction might be okay for some sectors that really need it, but its competence cannot be compared to the conventional building process when it comes to reliability against weather or ease of construction. The construction process of both traditional and prefab buildings starts in the same way with designing, site planning and foundation construction. After all the planning and site development

							has been done, modular buildings take a different turn from traditional structures. Students can see this turn as an efficient shortcut.
2	ICI-VRSEC	Internati onal Conferen ce (Online)	14-10-2022 to 15-10-2022	International Conference (Online) on Innovative Technology for Smart Construction Materials and Sustainable Infrastructure (ITSCMSI 2022)	60	International	This conference have ignite and enlighten the thought provoking research ideas ,engrossing and given valuable experience by sharing ideas with others at this conference
3	ICI-VRSEC	Webinar	13-12-2022	"3D Printable Concrete (3DPC)"	10	State	Establishing a widely accepted mix design method for 3DPC is the end goal. it is essential to develop the mix design concepts based on compressive strength and durability for printable concrete, which pose a major challenge to the further advancement of 3DPC. 3DPC mixes used in recent years use high amounts of cementitious binder and low amounts of aggregates. This makes them vulnerable to shrinkage

							cracking and poor durability in the hardened 3DPC. This is not in harmony with the principle of sustainability either. Hence, investigating the use of 3DPC with coarse aggregate and low binder contents is critical in keeping with sustainable construction practices.
4	ICI-VRSEC	Guest Lecture	21-01-2023	"Best Practices in usage of Ready-Mix Concrete for Construction"	148	State	The ultimate goal of the program would be to prepare students for entry-level positions in the ready-mix concrete industry, and to provide them with the skills and knowledge needed to advance in their careers.
5	ICI-VRSEC	Expert Talk	07-03-2023	"Bamboo as a sustainable building construction material"	34	State	Understanding of sustainable materials: Learning about bamboo as a sustainable material for construction can help students understand the importance of using ecofriendly materials in building structures. This knowledge can translate into future careers in engineering or architecture, where sustainable design is becoming increasingly important.
6	ICI-VRSEC	Worksho p	13-03-2023	"Virtual Reality for	97	State	A workshop on virtual reality (VR) for planning and design can have several outcomes for civil engineering students,

Planning and	including: Increased
Design "	understanding of VR
	technology: Students will learn
	about the capabilities and
	limitations of VR, as well as the
	different types of software and
	hardware available. They will
	also gain a better
	understanding of how VR can
	be used in the planning and
	design process. Improved
	design skills: By using VR to
	visualize and test design
	concepts, students will be able
	to better understand the
	spatial relationships of
	different design elements and
	make more informed design
	decisions. This can lead to more
	effective and efficient designs.
	Enhanced collaboration skills:
	VR can facilitate collaboration
	between different
	stakeholders in a project,
	including engineers, architects,
	and clients. By learning how to
	use VR to communicate design
	concepts and receive feedback,
	students will be better
	prepared to work in a team
	environment. Better job
	prospects: As VR technology
	becomes increasingly
	important in the civil

						engineering industry, students who have experience using VR in their coursework will be more competitive in the job market.
7	ICI-VRSEC	19-04-2023	Motivation Lecture on Ehics: "The journey in search of a satisfying life"	100	State	The outcome of the motivation lecture on ethics titled "The journey in search of a satisfying life" for students is likely to be a positive and impactful one. It will help students understand the importance of ethics, provide them with a framework for ethical decision-making, encourage personal reflection, inspire them to live a satisfying life, and have a positive impact on their personal and professional lives.



DEPARTMENT OF CIVIL ENGINEERING V R SIDDHARTHA ENGINEERING COLLEGE



Field visit on Construction Techniques

Event Type	Field visit on Construction Techniques
Date / Duration	26-07-2022 – 2PM to 5PM
Resource Team	Mr. A Dattatreya Kumar, Assistant Professor, Civil Engineering Department, VRSEC
Name of Coordinator	Dr.Hanuma Kasagani, Assistant Professor, CED-VRSEC
Target Audience	B.Tech-students, Faculty members of Civil and Research scholars
Total no of Participants	50
Objective of The-event	The main aim is to show the Prefab steel buildings have various advantages over the traditional building process. With high durability due to the use of structural steel and the flexibility of construction make it an excellent alternative to the conventional construction process. Traditional construction procedures have been here for a long time. The typical concrete reinforcement along steel beams and then waiting for the concrete to harden up has been taking up a lot of time from the construction managers and the customers together. Although traditional construction may never go obsolete as they are needed for the development of permanent complex buildings that require convoluted structures. But on a general thought, if you construct every building with the conventional concrete reinforced method, not all buildings that are built can be said to have the efficiency and cost conservation as prefab steel buildings. Over the years after the recession, the cost of traditional construction has increased by 60% because of the cost of its raw material and worker wages growing gradually.
Outcome of The-event	Traditional buildings will require a lot of extra effort and money to make it sustainable to the effects of nature. Concrete can be affected over time by chemicals and water while it gets chilled in the winters. Traditional construction might be okay for some sectors that really need it, but its competence cannot be compared to the conventional building process when it comes to reliability against weather or ease of construction. The construction process of both traditional and prefab buildings starts in the same way with designing, site planning and foundation construction. After all the planning and site development has been done, modular buildings take a different turn from traditional structures. Students can see this turn as an efficient shortcut.
Feedback / Suggestions	B.Tech students and faculty gave positive feedback on the Field visit on Construction Techniques and requested more training programmes in this manner.

Photos







DEPARTMENT OF CIVIL ENGINEERING VR SIDDHARTHA ENGINEERING COLLEGE



(Autonomous) VIJAYAWADA ssociation with Indian Concrete Institute, VRSEC Student Chapter

International Conference (Online)

on

Innovative Technology for Smart Construction Materials and Sustainable Infrastructure (ITSCMSI) 14th & 15thOctober, 2022

A Report on ITSCMSI-2022

Event Type	Online International Conference
Date/Duration	14 th & 15 th October, 2022
ResourceTeam	Prof. C. B. KameswarRao, NIT Warangal, India. Ar. SarlyAdreSarkum, Architecture futurist, Malaysia. Dr. Krishna R. Reddy, Professor, University of Illinois, Chicago Dr. S. K. Shukla, Professor, Edith Cowan University, Australia
Name of Coordinator	Dr. HanumaKasagani, Assistant Professor, VRSEC Dr.Anuja Charpe., Assistant Professor, VRSEC
TargetAudience	B.Techstudents,M.Tech. students FacultymembersandResearchscholars
Total no of Participants	60
Objective of The-event	It aims at providing a premier platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Civil Engineering.
Outcome of The-event	This conference have ignite and enlighten the thought provoking research ideas, engrossing and given valuable experience by sharing ideas with others at this conference
Feedback /Suggestions	B.Tech-students, M.Tech.students FacultymembersandResearchscholars gave positive feedback on International Conference and requested more Conference in this manner.

About the Conference:

The International Conference on Innovative Technology for Smart Construction Materials and Sustainable Infrastructure (ITSCMSI-2022) was successfully held on October 14th and 15th 2022. The ITSCMSI-2022 was organized by Department of Civil Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada, A.P,India. Innovative and sustainable development is one of the leading civilization ideas in the field of Civil Engineering that has gained importance among the researchers in the recent past. In keeping view that the primary objective of the

International Conference on Innovative Technology for Smart Construction Materials and Sustainable Infrastructure (ITSCMSI-2022) to provide a platform to the researchers and practitioners from both academia as well as industry to meet and share cutting-edge development in the Civil Engineering in line with the conference theme "Building the World with Innovative Structures towards a Sustainable Future". The scope of the conference is to gather scientists, practitioners, members of technical committees and users of technical recommendations, to jointly at the same place discuss and envision the future sustainable development of materials, systems and structures in a holistic, global way. Thus, it aims at providing a premier platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Civil Engineering.

Conference Theme:

The conference focuses on latest research in different areas of civil engineering with special emphasis on sustainable construction practices. The main theme of the conference is "Building the World with Innovative Structures towards a Sustainable Future" and it is divided into seven subthemes:

- 1. Smart materials and sustainable construction,
- 2. Sustainable infrastructure in Structural Engineering
- 3. Sustainable infrastructure in Geotechnical and Transportation Engineering
- 4. Sustainability in Environmental Engineering
- 5. Sustainability in Irrigation, Water Resources and Management
- 6. Sustainability in Construction Management, and
- 7. Remote Sensing and GIS Applications in Sustainability

Conference Model:

The ITSCMSI-2022 received about 120 abstracts from various fields of Civil Engineering and out of which 93 full-length papers were received. After detailed review by experts 51 scientific papers were selected for presentations in this conference. The research manuscripts deal with Innovative Technologies and Sustainable Materials in Civil Engineering. The inaugural session of the

conference was conducted in online mode through Google Meet. About 51 scientific papers were presented in the conference by the authors from various countries through online platform. Participants were given a total of 15 minutes per paper, which includes 10 minutes for presentation and 5 minutes for discussions and Q&A session. A total of 4 technical sessions organized from 10 AM to 5 PM IST on both the days and a maximum of 14 papers were presented by presenters in each session. Minor obstacles due to technical issues such as low internet connection from presenters, and failure on audio did appear. However, it was manageable and solved within a bit of time. Hence, the technical sessions of the ITSCMSI-2022 went well as planned. All the presented papers in the sessions of ITSCMSI 2022 will be published in IOP Conf. Series: Earth and Environmental Science.

Keynote sessions:

A total of 4 keynote sessions were organized as a part of ITSCMSI-2022. Four eminent and well distinguished experts in the field of civil engineering were invited to deliver their keynote speeches and share their knowledge along with their rich experience in the applications of the advancements in sustainable materials and infrastructure in civil engineering to the participants.

Dr. C. B. KameswarRao, Professor, NIT Warangal, India, has delivered a keynote lecture on "Joints and connections in precast construction" on the Session-1 of first day of the conference, Ar. SarlyAdreSarkum, Architecture futurist, Malaysiahas delivered a keynote lecture on "The importance of Carbon Measurement, the next step in Green Building Evolution" on the Session-2 of first day of the conference, Dr. Krishna R. Reddy, Professor, University of Illinois, Chicago has delivered a keynote lecture on "Soil and Groundwater Pollution: Problems and Solutions" on the Session-1 of second day of the conference and Dr. S. K. Shukla, Professor, Edith Cowan University, Australia has delivered a keynote lecture on "Fundamentals and Applications of Geosynthetic Engineering" on the Session-2 of second day of the conference. Keynote Speakers were given 40 minutes to present the talk and 20 minutes Q&A session guided by the assigned moderator.

LIST OF COMMITTES

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- Prof. A.V. Ratna Prasad, Principal, VRSEC
- Prof. B. PandurangaRao, Dean Student Affairs and Civil Works Consultancy, VRSEC

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Prof. Ch. Srinivas, Head of the Civil Department, VRSEC

Co-Conveners

- Dr. HanumaKasagani, Assistant Professor, VRSEC
- Dr. Anuja Charpe, Assistant Professor, VRSEC

Key-Note Speakers

- Dr. C. B. Kameswar Rao, Professor, NIT Warangal, India.
- Ar. SarlyAdreSarkum, Architecture futurist, Malaysia.
- Dr. Krishna R. Reddy, Professor, University of Illinois, Chicago
- Dr. S. K. Shukla, Professor, Edith Cowan University, Australia

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- Dr. Shashi Ram, NIT, Warangal, India.
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- Mr.M. Rahmatulla, Sr.DGM, Pennar Industries Limited, Hyderabad, India.
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Prof. C. B. KameswarRao, NIT Warangal

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Conference Registration and Schedule:





Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 14th & 15th October, 2022

Day-1 (14/10/2022) -Session-1, Time: 9:00 am to 1:30 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe

Inaguration of international conference: 9:00 am to 10:00 am

Cheif guest and kenote speaker: Dr. C. B. Kameshwar Rao, Professor, Department of Civil Engineering, National Institute of Technology, Warangal

Topic: joints and connections in precast construction, Time: 10:00 am to 11:00 am una Rao, Head and Associate Professor, Department Civil Engineering, Vardhaman Colle

	Co-Chair: Dr. Lakshmi Kesav, Associate Professor, VR Siddhartha Engineering College, Vijayawada, A.P					
S.No	Paper ID	Presenter Name	Title of the Topic	Time		
1	12	Haritha M	Case study: ground improvement technique with geosynthetics as reinforcement on soft ground for buildings in coastal andhrapradesh	11:00 am to 11:10 am		
2	14	PARTHIBAN D	A short review on Substantial role of Geopolymer in the sustainable construction industry	11:10 am to 11:20 am		
3	26	Dr.Mangesh V Madurwar	A Review of Sustainable Housing Technologies: A Judicious Way Out to Aggravating Housing Demands	11:20 am to 11:30 am		
4	27	K veerababu	Seismic analysis of Multi storey Building on Sloping Ground and Flat Ground by using ETAB	11:30 am to 11:40 am		
5	28	Dr.S.Anitha Priyadharshani	Influence of loading type and rectangular opening on the behaviour of GFRP stiffened panels	11:40 am to 11:50 am		
6	32	REWA BOCHARE	Experimental Investigation on Waste Paper-pulp Infused Cement Mortar	11:50 am to 12:00 pm		
7	33	Sanjay Kumar R	Performance Assessment and Engineering behaviour of Cement Concrete with partially Replaced Foundry Sand as Fine Aggregate	12:00 pm to 12:10 pm		
8	38	G Ravi , P.K. Prasanna	The Role of Granite Waste Powder on Mechanical and Durability performance of GGBS and Metakaoline based concrete	12:10 pm to 12:20 pm		
9	44	KOLLURU VENKATA SAI	A Review on the Utilisation of Silica Fume and Metakaolin as Novel Grout Materials	12:20 pm to 12:30 pm		
10	55	Durgadevi S	LIGHTWEIGHT HEAT RESISTANT CONCRETE PANELS USING RECYCLED MATERIALS	12:30 pm to 12:40 pm		
11	57	U V NARAYANA RAO	Greener and sustainable Self Compacting Concrete : A review on performance at elevated temperatures.	12:40 pm to 12:50 pm		
12	60	CH KARTHIK	An Experimental Study on Recycled Aggregate Concrete With Partial Replacement of Cement With Flyash and Alccofine	12:50 pm to 01:00 pm		
13	64	Maryanne Blanche De Souza	Need for structural health assessment of RCC buildings	01:00 pm to 01:10 pm		
14	31	Pavankumar Naik	Analysis of skew bridge slab under IRC vehicle loading	01:10 pm to 01:20 pm		

Day-1(14/10/2022) -Session-2, Time: 2:00 pm to 5:00 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe

kenote speaker : Ar. Sarly Adre Sarkum, Architecture futurist, Malaysia

Topic: The importance of Carbon Measurement, the next step in Green Building Evolution, Time: 2:00 pm to 3:00 pm

Session Chair: Dr. Praveen Oggu, Assistant Professor, Department Civil Engineering, Vardhaman College Of Engineering, Telangana

Co-Chair: Dr. Sriram Pradeep, Assistant Professor, VR Siddhartha Engineering College, Vijayawada, A.P

S.No	Paper ID	Presenter Name	Title of the Topic	Time
1	65	Aditi A Mhamal,	Use of marble and granite dust waste as partial replacement of fine aggregates in concrete	03:00 pm to 03:10 pm
2	66	KakaraparthiPhani Kumar	A study on the water proofing behaviour of FLYASH M-sand and dust based concrete with varying Percentages of different Crystalline Admixtures	03:10 pm to 03:20 pm
3	75	MasabattulaNeeharika	Ultrahigh Performance of Concrete using Manufactured Sand	03:20 pm to 03:40 pm
4	82	PARTHASARATHY S	Envisaging Sustainable Building Materials for Earthen Construction Practices	03:40 pm to 03:50 pm
5	19	JUPAKA AKHILA	EXPERIMENTAL INVESTIGATION ON CONCRETE CARBONATION	03:50 pm to 04:00 pm
6	84	A Ahalya	Stabilization of black cotton soil with waste plastic and admixtures	04:00 pm to 04:10 pm
7	34	sureshkannan s	Seismic Analysis of Soft Storey Building in Earthquake Zones	04:10 pm to 04:20 pm
8	40	SAIMA AGA	Parametric study on response of multi-storied building equipped with viscous and visco-elastic dampers subjected to ground motions.	04:20 pm to 04:30 pm
9	42	Disha J & Dr. K Gourav	A Collateral study on Optimization of Pre-Engineered building with Tubular sectional connection	04:30 pm to 04:20 pm
10	54	B. Vamsi Krishna	Fragility Comparison for Soft Storey Infill Reduced Structures by Incremental Dynamic Analysis	04:40 pm to 04:50 pm
11	58	B. Vamsi Krishna	Comparative Analysis & Design of RCC & Steel Preheater Tower Structure by Using STAAD. Pro	04:50 pm to 05:00 pm
12	59	Vajrala kavya sameera	Mechanical and durability behaviour of GGBS, Msand based concrete with varying percentages of two crystalline admixtures - An experimental study	05:00 pm to 05:10 pm

Day-1 (14/10/2022) -Session-1, Time (IST): 9:00 am to 1:30 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe

Day-1(14/10/2022) -Session-2, Time (IST): 2:00 pm to 5:00 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe



DEPARTMENT OF CIVIL ENGINEERING

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEG

In Association with Indian Concrete Institute, VRSEC Student Chapter



International Conference (Online) on

Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 14th & 15th October, 2022

Day-2 (15/10/2022)-Session-1, Time: 10:00 am to 1:00 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe

kenote speaker: Dr. Krishna R. Reddy, Professor, University Scholar & Distinguished Researcher Director, Geotechnical & Geoenvironmental Engineering Laboratory

& Sustainable Engineering Research Laboratory Civil, Materials, and Environmental Engineering

Topic: Soil and Groundwater Pollution: Problems and Solutions, Time: 10:00 am to 11:00 am

Session Chair: Dr. Ashwin Raut, Associate Professor, Department Civil Engineering, KL University, Guntur, A.P.
Co-Chair: Dr. S.R.R. Teia Prathipati. Assosistant Professor. VR Siddhartha Engineering College, Vijavawada, A.P.

Co-Chair. Dr. S.K.K. Teja Fracinpaci, Assistant Froessor, Vit Stadinartia Engineering Conege, Vijayawada, A.i.					
S.No	Paper ID	Presenter Name	Title of the Topic	Time	
1	61	PLS Shalini kora	Study On Behaviour Of Aluminium Metal Matrix Composite Reinforced With Silicon Carbide And Titanium Diboride.	11:00 am to 11:10 am	
2	68	B.Saketh Raj	Flexural Performance of Sustainable Fly Ash Based Concrete Beams	11:10 am to 11:20 am	
3	79	Goushiya Sayyed	Optimization of critical factors responsible for prestressed concrete bridge pier collapse	11:20 am to 11:30 am	
4	86	Dr.G.Mallikarjuna Rao	Prediction of Compressive Strength of Recycled Aggregate Concrete Using Artificial Neural Networks	11:30 am to 11:40 am	
5	91	Dr. Kunamineni Vijay	Evaluating the effect of steel fibres on the mechanical performance of high-volume fly-ash concrete	11:40 am to 11:50 am	
6	92	N.Mahendra Reddy	A study on Real time strength assessment of concrete by maturity method	11:50 am to 12:00 am	
7	20	VIJAYAN D.S	An investigational study on Pre and post stabilization behaviour of Lime stabilized Expansive soil admixed with palm kernel ash	12:00 pm to 12:10 pm	
8	21	S Jeya Sudha	Assessing the application of lime and foundry sand in soil stabilization - a lab scale approach	12:10 pm to 12:20 pm	
9	37	Raghvendra Pratap Singh Rajput	A Study on the Effect of Aging on PMB40 And CRMB55 In Bituminous Concrete Layers	12:20 pm to 12:30 pm	
10	51	JahnaviDonavalli	Probability Assessment of Soil Liquefaction Potential in Vijayawada Region(CRDA)	12:30 pm to 12:40 pm	
11	52	CHUKKA SANDHYARANI	ANALYSIS OF LIQUEFACTION POTENTIAL OF SOILS IN GUNTUR REGION(CRDA)	12:40 pm to 12:50 pm	
12	89	Venkatesh Noolu	A Study on Site Specific Ground Response Analysis in Bihar	12:50 pm to 01:00 pm	

Day-2 (15/10/2022)-Session-2, Time: 2:00 pm to 5:00 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe

kenote speaker: Dr. S. K. Shukla, Professor, Edith Cowan University, Australia.

Topic: Fundamentals and Applications of Geosynthetic Engineering , Time : 2:00 pm to 3:00 pm

Co-Chair: Mrs. B. Durga Privanka, Assistant Professor, VR Siddhartha Engineering College, Vijayawada, A

	Co-Chair: Mrs. B. Durga Priyanka, Assistant Professor, VR Siddhartha Engineering College, Vijayawada, A.P						
S.No	Paper ID	Presenter Name	Title of the Topic	Time			
1	10	P Padhma Priya, AngelinJenitDerina J Pearlin	Predictive Biodegradation of Multiple Toxic Pollutants in Bioreactors Treating Real Wastewater using ANN	03:00 pm to 03:10 pm			
-		D and Naresh Kumar Sharma	and GP	03.00 pm to 03.10 pm			
2	13	DIGAMBAR BALASAHEB PATIL	Basics of computational fluid dynamics: an overview	03:10 pm to 03:20 pm			
3	43	SmitaBadgujar	Economical and environmental friendly self compacting concrete	03:20 pm to 03:40 pm			
4	53	Rajendra D. Patil	Proposing a Water Distribution Network Solution for an Arid Region Using the Criticality Tool	03:40 pm to 03:50 pm			
5	67	Dr. S V S N D L PRASANNA	Prediction and Comparison of Rainfall-Runoff Using Mathematical Model	03:50 pm to 04:00 pm			
6	88	Bhogayya Naidu Gudivada	Analysis of Water Quality Around the Patancheruvu, Sangareddy, Telangana, India	04:00 pm to 04:10 pm			
7	7	Dr.S.Ajith	A Framework to Evaluate Safety Performance Using UACS Equation in Construction Sites	04:10 pm to 04:20 pm			
8	17	Sai Nandan Mandadapu	A review of fresh and hardened properties of concrete reinforced with waste materials	04:20 pm to 04:30 pm			
9	35	NAGA VENKATA VAMSI KRISHNA TADIBOINA	INVESTIGATION OF MECHANICAL PROPERTIES OF M-SAND CONCRETE WITH POLYPROPYLENE AND STEEL FIBERS	04:30 pm to 04:20 pm			
10	36	Mokeshprabu E	Influence of various parameters on lifecycle cost of buildings with active energy efficiency measures	04:40 pm to 04:50 pm			
11	70	Garnepudi Sheena Ecclesia	Artificial Intelligence In Civil Engineering: Boon or Vain	04:50 pm to 05:00 pm			
12	63	Lizbeth Kariza Gomes	Detection of damage in offshore jacket structure using artificial neural network	05:00 pm to 05:10 pm			

15/ 10/ 2022- Valedictory Ceremony: Time (IST): 5:30 PM to 6:00 PM

Day-2 (15/10/2022)-Session-1, Time (IST): 10:00 am to 1:00 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe

Day-2 (15/10/2022)-Session-2, Time (IST): 2:00 pm to 6:00 pm, Schedule Link: https://meet.google.com/zjc-jryr-ghe

Inauguration:

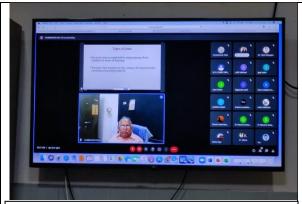
Dr.Lakshmi Keshav, Associate Professor, Civil Engineering Department, VRSEC welcomed the chief guest, keynote speakers and participants to the International Conference (Online) on "Innovative Technology for Smart Construction Materials and Sustainable Infrastructure". She has given the brief introduction about the conference.

Dr. Anuja Charpe, Assistant Professor, VRSEC, Civil Engineering Department, VRSEC, has given objective and themes of International Conference (Online) on "Innovative Technology for Smart Construction Materials and Sustainable Infrastructure".

Dr. HanumaKasagani, assistant Professor, Civil Engineering Department, VRSEC, has presented the outline of the schedule for International Conference (Online) on "Innovative Technology for Smart Construction Materials and Sustainable Infrastructure".

Dr. Ch. Srinivas, HoD-CE, VRSEC addressed the gathering and welcomed the guest speaker. Also, welcomed the students and faculty participants from different colleges and universities. He addressed about the importance of the International Conference (Online) on "Innovative Technology for Smart Construction Materials and Sustainable Infrastructure". She has given the brief introduction about the conference. How best it is going to useful to the participants. Also, appreciated the all faculty organizing committee and department faculty coordinators.

Dr. C. B. KameswarRao, Professor, NIT Warangal, India, addressed the gathering. He talked about present scenario of Civil Engineering. Also, talked about importance of Innovative Technology for Prefabricated Structures. Also, appreciated the all faculty organizing committee and department faculty coordinators.



 $\textbf{Dr. C. B. KameswarRao}, Professor, \ NIT \ Warangal, \ India.$





Dr. Krishna R. Reddv. Professor. University of





Dr. ChavaSrinivas, Professor & HOD, CED-VRSEC, Dean, Industry Relation VRSEC ITSCMSI@22-Organizing Team



Participants for ITSCMSI@22

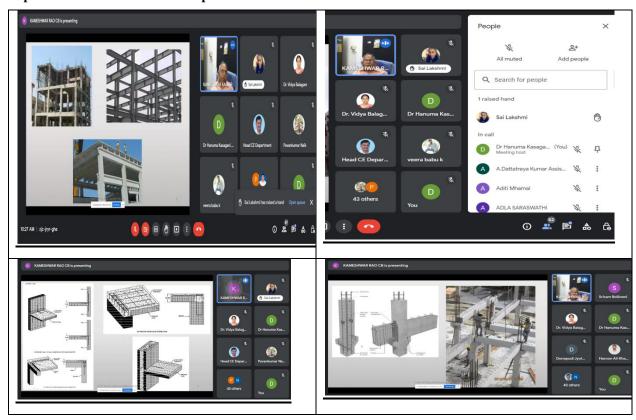
Pictures:

Day1-Session-1

Keynote Lecture:

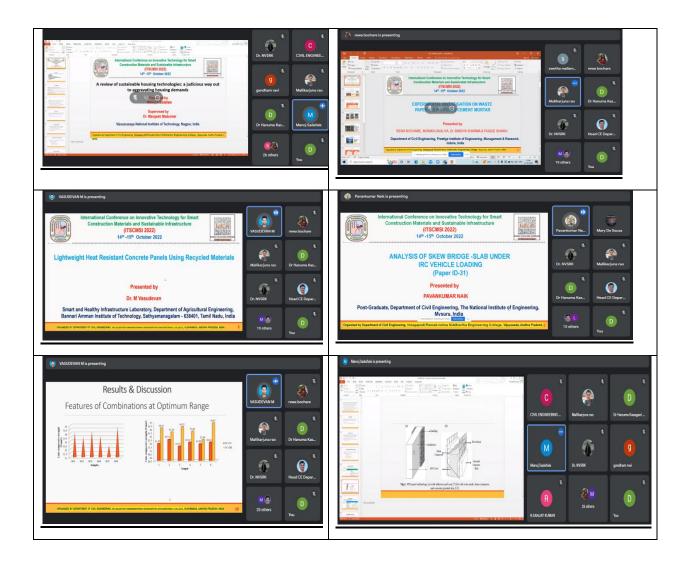
Speaker: Dr. C. B. KameswarRao, Professor, NIT Warangal, India.

Topic: Joints and connections in precast construction



Paper Presentations:



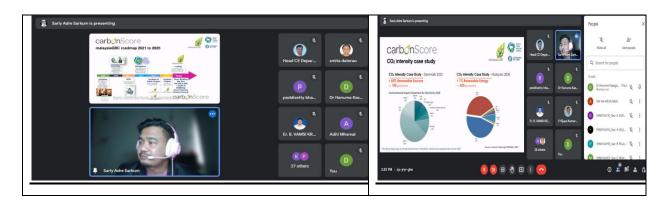


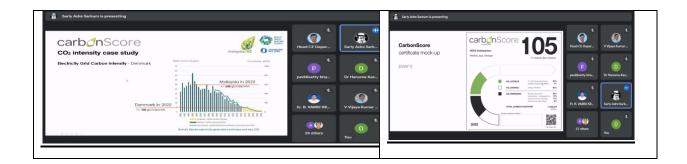
Day1-Session-2

Keynote Lecture:

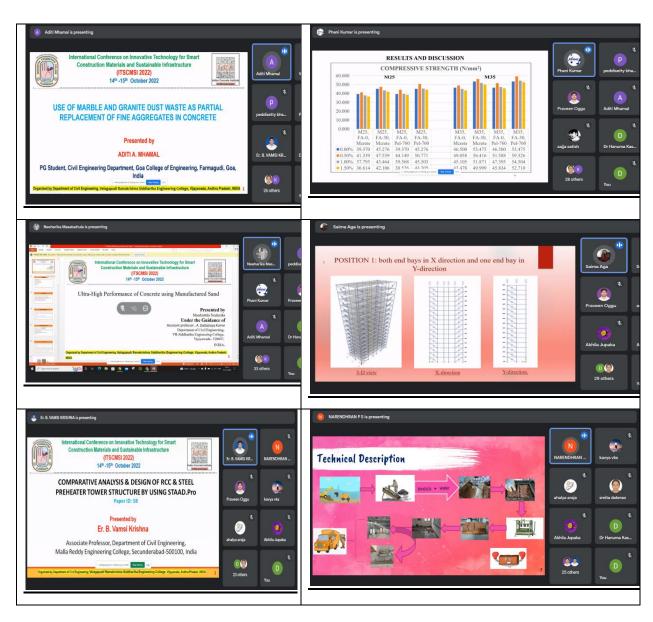
Speaker: Ar.SarlyAdreSarkum, Architecture futurist, Malaysia.

Topic: The importance of Carbon Measurement, the next step in Green Building Evolution





Paper Presentations:



Day2-Session-1

Keynote Lecture:

Speaker: Dr. Krishna R. Reddy, Professor, University of Illinois, Chicago

Topic: Soil and Groundwater Pollution: Problems and Solutions



Paper Presentations:

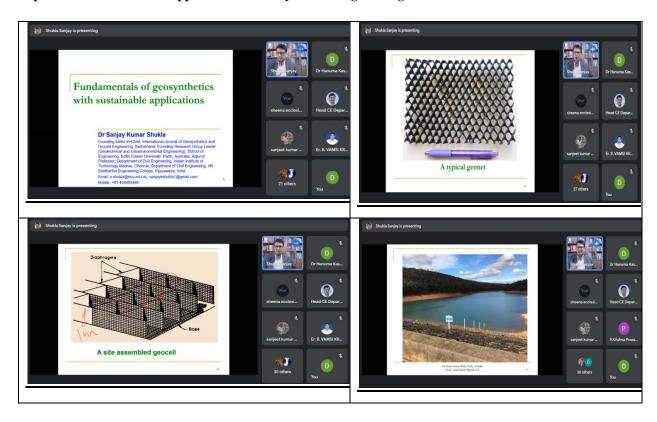




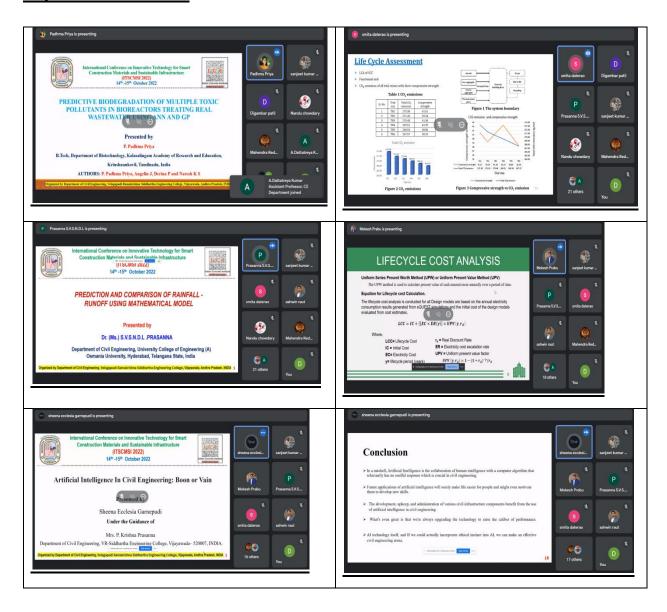
Day2-Session-2

Keynote Lecture:

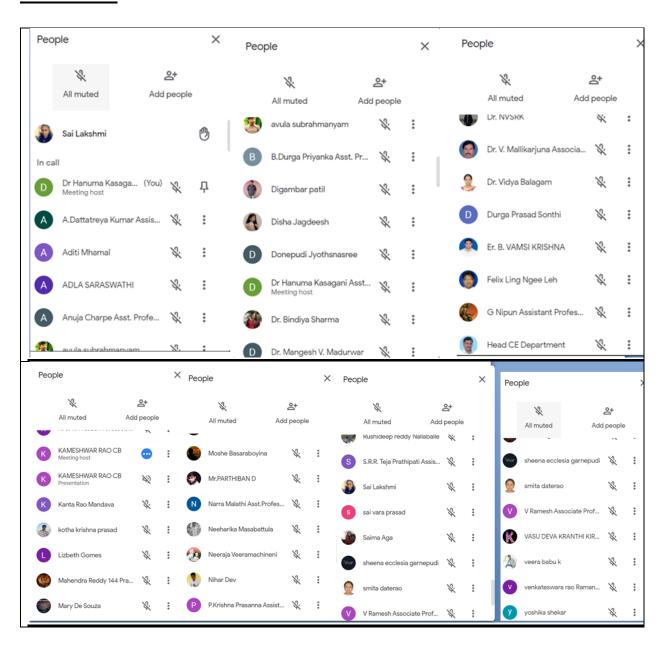
Speaker: Dr. S. K. Shukla, Professor,Edith Cowan University, Australia **Topic: Fundamentals and Applications of Geosynthetic Engineering**



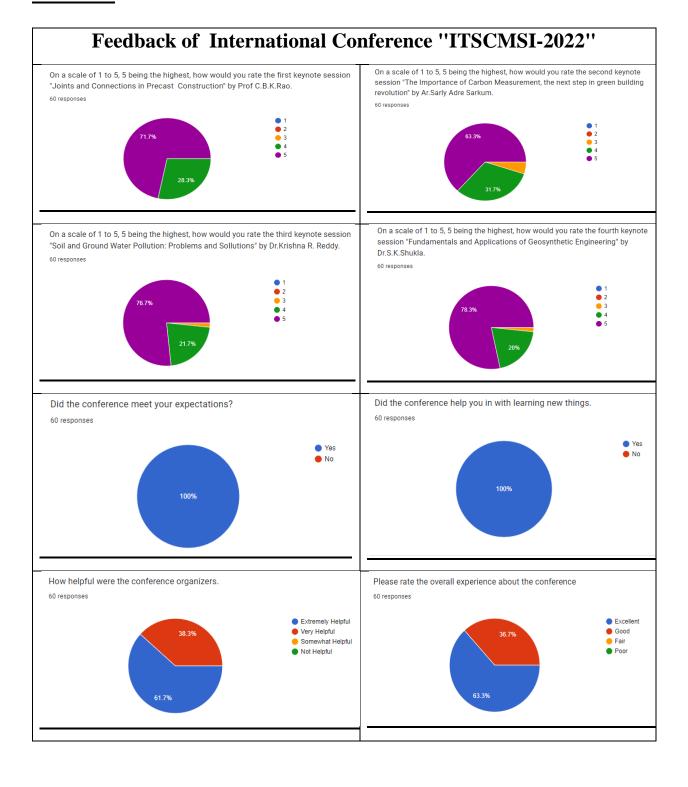
Paper Presentations:



Attendance:



Feedback:



Concluding Remarks: In summary, the success of the conference is a team effort. This conference could not be organized without the dedicated efforts from all our committee members and hence I am grateful to all the committee members who worked very hard to make this event a successful one. We would also like to thank all the authors who have submitted their papers to the conference and like to thank the editors and reviewers who have contributed to the thorough review process thereby ensuring quality publication of the conference proceedings. We hope that you will find this conference thought provoking and engrossing, and you had a valuable experience by sharing ideas with others at this conference.

Dr.Anuja Charpe Assistant Professor, CED-VRSEC Dr. Hanuma Kasagani Assistant Professor, CED-VRSEC Dr. Ch. Srinivas
Dean, Industry Relation,
Professor & HoD
CE-VRSEC



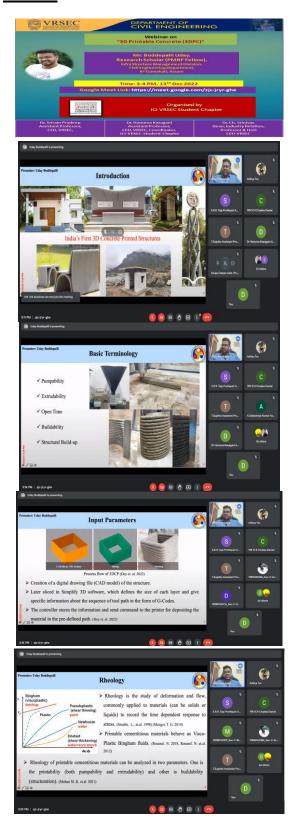
DEPARTMENT OF CIVIL ENGINEERING V R SIDDHARTHA ENGINEERING COLLEGE

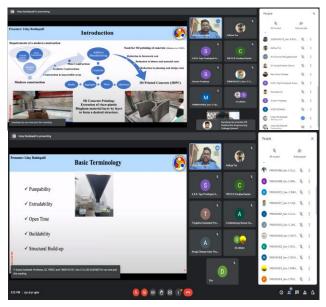


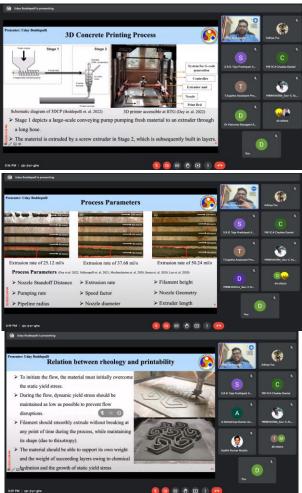
Webinar on "3D Printable Concrete (3DPC)"

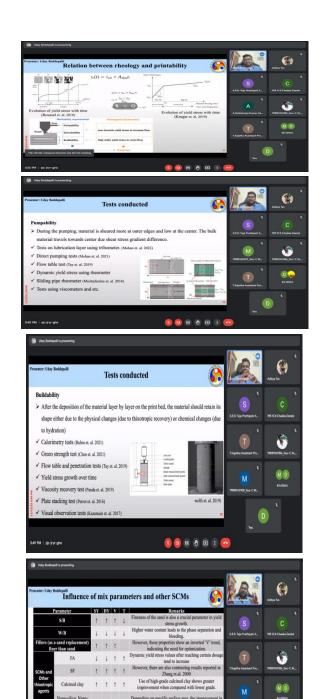
Event Type	Webinar
Date / Duration	13-12-2022 – 3PM to 4PM
Resource Team	Mr. Boddepalli Uday, Research Scholar (PMRF Fellow), Infra Structure Management Division, Civil Engineering Department, IIT Guwahati, Assam
Name of Coordinator	Dr. Sriram Pradeep, Assistant Professor, CED, VRSEC,Dr.Hanuma Kasagani, Assistant Professor, ICI-VRSEC Student Chapter (Coordinator) CED-VRSEC
Target Audience	B.Tech-students, Faculty members of Civil and Research scholars
Total no of Participants	56
Objective of The-event	Mix design concepts for 3D printable concrete The aim of this Webinar is to present the mix design concepts of 3D printable concrete. In this context, at the outset, the material re quirements for 3DPC are discussed. These fresh-state and hardened-state requirements are design targets that should be achieved for designing an optimal mix for 3DPC. Thereafter, the compositions of 3DPC and the parameters of mix design, as well as their impact on the said design targets, are reviewed to give readers a fundamental understanding of the processes behind designing a mix for 3DPC. Finally, both empirical and theoretical mix design methods are comprehensively reviewed, which is also highlighted in the paper. It offers some scientific insights and sug gestions regarding mix design concepts to researchers and engineers for the purposeful further development of 3D concrete printing technology in general and 3DPC compositions in particular.
Outcome of The-event	Establishing a widely accepted mix design method for 3DPC is the end goal. it is essential to develop the mix design concepts based on compressive strength and durability for printable concrete, which pose a major challenge to the further advancement of 3DPC. 3DPC mixes used in recent years use high amounts of cementitious binder and low amounts of aggregates. This makes them vulnerable to shrinkage cracking and poor durability in the hardened 3DPC. This is not in harmony with the principle of sustainability either. Hence, investigating the use of 3DPC with coarse aggregate and low binder contents is critical in keeping with sustainable construction practices.
Feedback / Suggestions	B.Tech students and faculty gave positive feedback on the Webinar on 3DPC and requested more programmes in this manner.

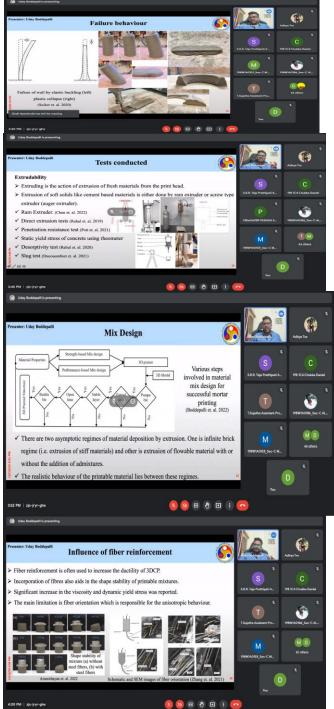
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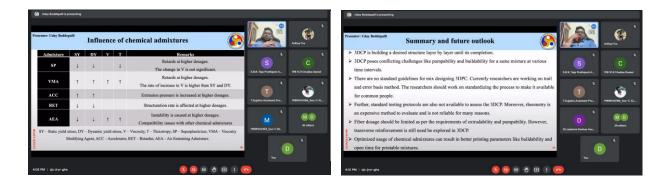




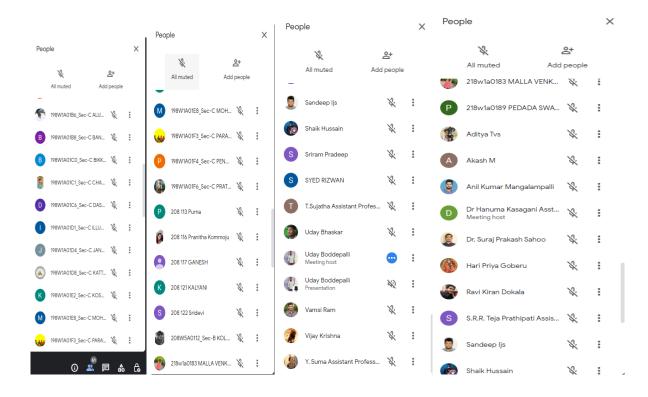








Attendance:



Feedback:



Dr. Sriram Pradeep 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



Guest Lecture on "Best Practices in usage of Ready Mix Concrete for Construction"

Event Type	Guest Lecture
Date / Duration	21-01-2023 – 10 AM to 11:30 AM
Resource Person	Prof N V Ramana Rao, Director, NIT Warangal, Telangana, India
Name of Coordinator	Dr.Hanuma Kasagani, Assistant Professor, CED-VRSEC
Target Audience	B.Tech-students, Faculty members of Civil and Research scholars
Total no of Participants	148
Objective of The-event	The objective of a ready mix concrete for construction program for students would be to provide students with a comprehensive understanding of the principles and techniques used in the production and application of ready-mixed concrete. This could include learning about the various types of concrete and their properties, as well as the equipment and methods used in the mixing, transport, and placement of the concrete. The program may also cover topics such as quality control, safety, and sustainability in the ready-mix concrete industry.
Outcome of The-event	The ultimate goal of the program would be to prepare students for entry-level positions in the ready-mix concrete industry, and to provide them with the skills and knowledge needed to advance in their careers.
Feedback / Suggestions	B.Tech students and faculty gave positive feedback on the Guest Lecture on RMC and requested more programmes in this manner.

Photos













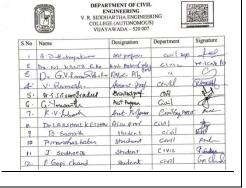


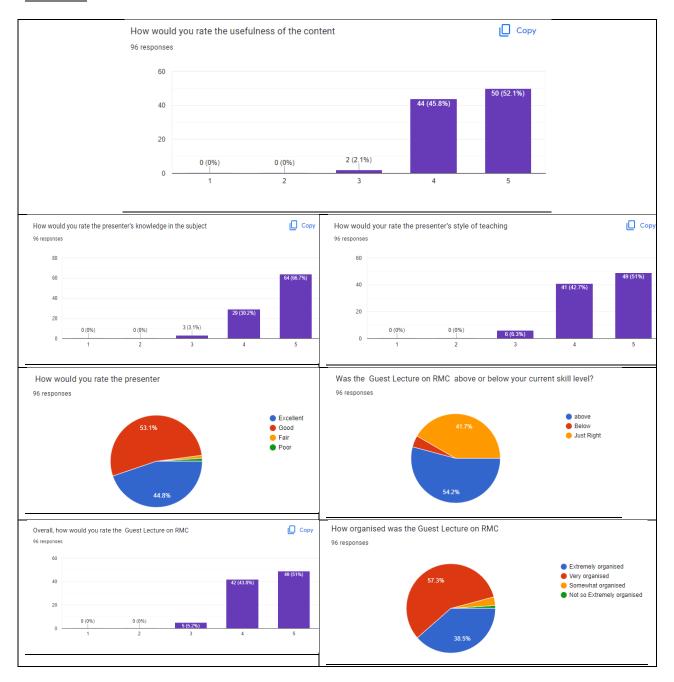
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Dr. Hanuma Kasagani Assistant Professor, CED-VRSEC, Coordinator ICI-VRSEC-Student-Chapter



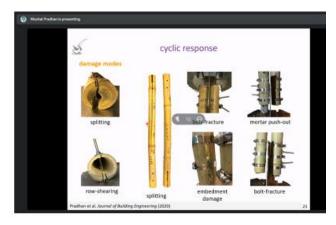


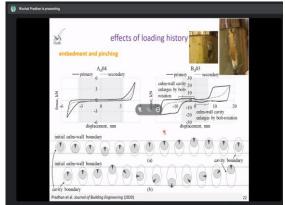
Expert Talk on "Bamboo as a sustainable building construction material"

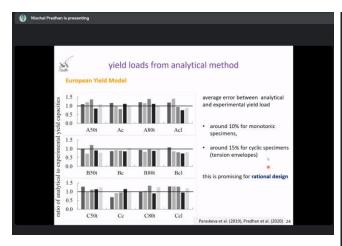
Event Type Expert Talk				
Date / Duration	07-03-2023 – 5 PM to 6 PM			
Resource Person	Dr. Nischal Prasad N.P., PhD., HKUST, Hong Kong , Structural Engineer, Kathmandu, Nepal			
Name of Coordinator	Dr.Hanuma Kasagani, Assistant Professor, CED-VRSEC			
Target Audience	B.Tech - Students, Faculty members of Civil and Research scholars			
Total no of Participants	34			
Objective of The-event	The objective of using multi-column bamboo axial members is to provide an eco-friendly, sustainable, and cost-effective solution for building structures that can withstand axial loads. These members are made from bamboo, which is a fast-growing, renewable, and strong natural material. Multi-column bamboo axial members are typically used in low-rise and medium-rise buildings, such as residential homes, commercial buildings, and community centers. They offer several advantages over traditional materials such as steel and concrete, including lighter weight, lower cost, and a smaller environmental footprint. Overall, the objective of using multi-column bamboo axial members is to promote sustainable and environmentally responsible building practices, while also providing strong and reliable structural support.			
Outcome of The-event	Understanding of sustainable materials: Learning about bamboo as a sustainable material for construction can help students understand the importance of using eco-friendly materials in building structures. This knowledge can translate into future careers in engineering or architecture, where sustainable design is becoming increasingly important.			
Feedback / Suggestions	B.Tech students and faculty gave positive feedback on the Expert Talk on MCABM and requested more programmes in this manner.			

Photos

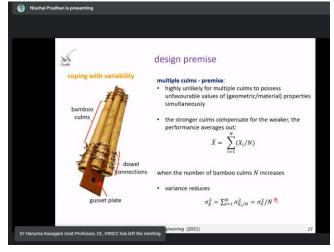


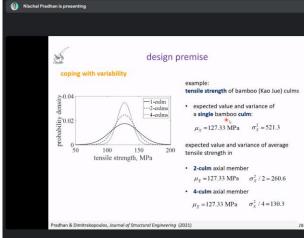


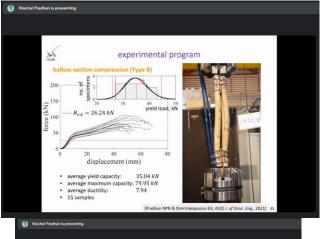


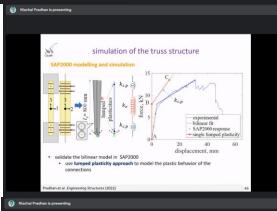


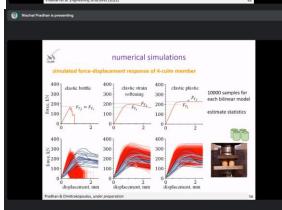


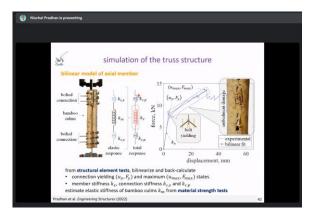


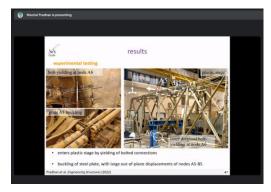


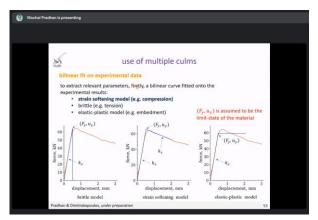


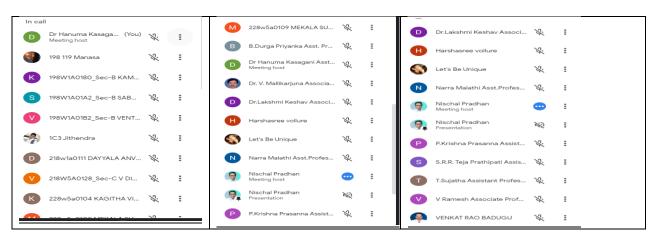


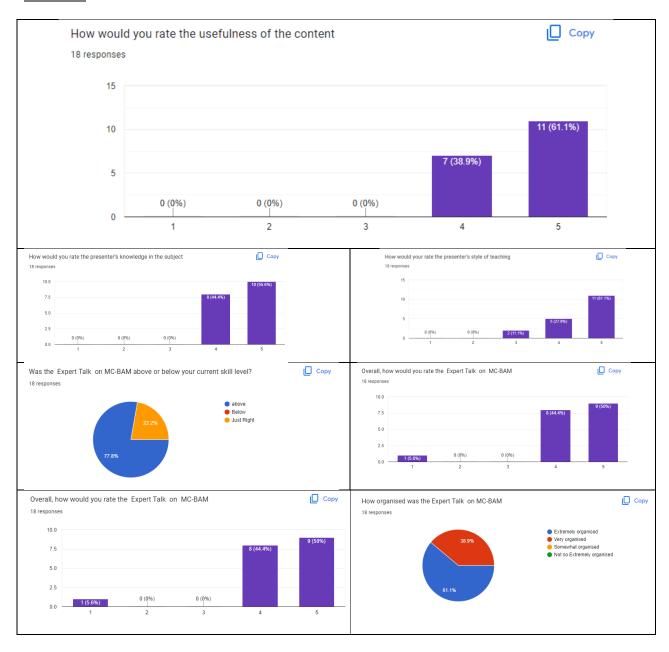












Dr. Hanuma Kasagani Assistant Professor, CED-VRSEC, Coordinator ICI-VRSEC-Student-Chapter





Workshop on "Virtual Reality for Planning and Design "

Event Type	Workshop		
Date / Duration	3-03-2023 – 2 PM to 5 AM		
Resource Person	Ms.P. M Lakshmi, TMTCS, Krishna district		
Name of Coordinator	Dr.Hanuma Kasagani, Assistant Professor, CED-VRSEC		
Target Audience	B.Tech-students, Faculty members of Civil and Research scholars		
Total no of Participants	97		
Objective of The-event	The objective of the workshop is to provide participants with the knowledge and skills necessary to effectively use VR technology in their planning and design work, ultimately leading to better designed and more successful projects.		
Outcome of The-event	A workshop on virtual reality (VR) for planning and design can have several outcomes for civil engineering students, including: Increased understanding of VR technology: Students will learn about the capabilities and limitations of VR, as well as the different types of software and hardware available. They will also gain a better understanding of how VR can be used in the planning and design process. Improved design skills: By using VR to visualize and test design concepts, students will be able to better understand the spatial relationships of different design elements and make more informed design decisions. This can lead to more effective and efficient designs. Enhanced collaboration skills: VR can facilitate collaboration between different stakeholders in a project, including engineers, architects, and clients. By learning how to use VR to communicate design concepts and receive feedback, students will be better prepared to work in a team environment. Better job prospects: As VR technology becomes increasingly important in the civil engineering industry, students who have experience using VR in their coursework will be more competitive in the job market.		
Feedback / Suggestions	B. Tech students and faculty gave positive feedback on the Guest Lecture on VRPD and requested more programmes in this manner.		



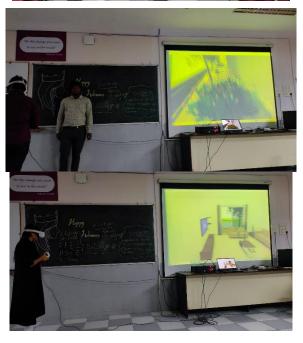
















Certificate:





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





Expert Talk on "Eco-friendly Ultra-High-Performance Concrete"

Event Type	Expert Talk		
Date / Duration	05-06-2023 – 2 PM to 5 AM Dr. J.Sri Maruthi PhD., P.E, M.ASCE , Research & Development Engineer Tindall Corporation, USA		
Resource Person			
Name of Coordinator	Dr.Hanuma Kasagani,and Mrs. Y.Suma, Assistant Professor, CED-VRSEC		
Target Audience	B.Tech & M.Tech-students, Faculty members of Civil and Research scholars		
Total no of Participants	50		
Objective of The-event	The objective of the expert talk on eco-friendly ultra-high-performance concrete for students is to educate, inspire, and motivate students to become advocates for sustainable construction practices and encourage them to explore the potential of eco-friendly materials like UHPC in their future careers.		
Outcome of The-event	The outcomes of an expert talk on eco-friendly ultra-high-performance concrete (UHPC) for students can include: Increased knowledge and understanding: The students will gain a comprehensive understanding of UHPC, its composition, manufacturing process, and properties. They will learn about the environmental benefits of UHPC and its potential to reduce carbon emissions, conserve natural resources, and promote sustainable construction practices. Awareness and consciousness: The event will raise awareness among students about the importance of adopting eco-friendly materials in construction. They will become more conscious of the environmental impact of conventional concrete and the need for sustainable alternatives like UHPC. This awareness can shape their attitudes and decision-making processes in their future careers. Inspiration and motivation: The expert talk can inspire and motivate students to pursue careers in sustainable construction or related fields. By showcasing the advancements and potential of eco-friendly UHPC, students may be inspired to become advocates for sustainable practices and contribute to the development and adoption of greener construction materials. Practical application and innovation: Students will gain insights into the practical applications of UHPC in various construction projects. They may be inspired to explore innovative uses of UHPC, such as in high-rise buildings, bridges, or infrastructure projects. This can stimulate their creativity and encourage them to think critically about sustainable design and construction solutions. Networking and collaboration: The event can provide students with the opportunity to network and connect with industry experts, researchers, or professionals working		

	in the field of sustainable construction. This networking can lead to potential
	collaborations, mentorship opportunities, or internships, enabling students to gain
	practical experience and build valuable relationships in the industry.
	Future research and academic pursuits: The talk may spark an interest in students to
	further explore the field of eco-friendly UHPC through research or academic pursuits.
	They may be motivated to conduct studies, experiments, or projects related to UHPC,
	contributing to the body of knowledge in sustainable construction and enhancing
	their academic and professional profiles.
Feedback /	B. Tech & M.Tech students and faculty gave positive feedback on the Guest Lecture
Suggestions	on EUHPC and requested more programmes in this manner.

Photos















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Mrs.Y.Suma,
Assistant Professor,
CED-VRSEC, Coordinator
IGBC-VRSEC-Student-Chapter

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

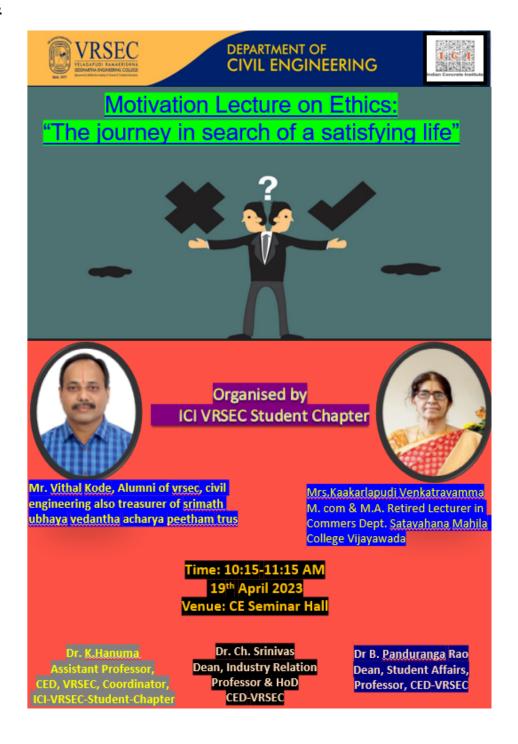




Motivation Lecture on Ethics: "The journey in search of a satisfying life"

Event Type	Motivation Lecture			
Date / Duration	19-04-2023 – 10 AM to 12 PM			
Resource Person Mr. Vithal Kode, Alumni of vrsec, civil engineering also treasubhaya vedantha acharya peetham trust Mrs.Kaakarlapudi Venkatravamma M. com & M.A. Retired Lecturer in Commers Dept. Satavahana Nijayawada				
Name of Coordinator	Dr.Hanuma Kasagani, Assistant Professor, CED-VRSEC			
Target Audience	B.Tech-students and Faculty members of Civil			
Total no of Participants	100			
The objective of the motivation lecture on ethics should be to inspire st live a fulfilling life that is guided by ethical principles and values. By practical tips and guidance on ethical decision-making, the lecture of students with the tools they need to navigate ethical challenges and personal and professional success.				
Outcome of The-event	ind dutioning of the mountainer restains and the journey in source			
Feedback / Suggestions	B. Tech students and faculty gave positive feedback on the Motivation Lecture on the journey in search of a satisfying life and requested more programmes in this manner.			

Photos













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