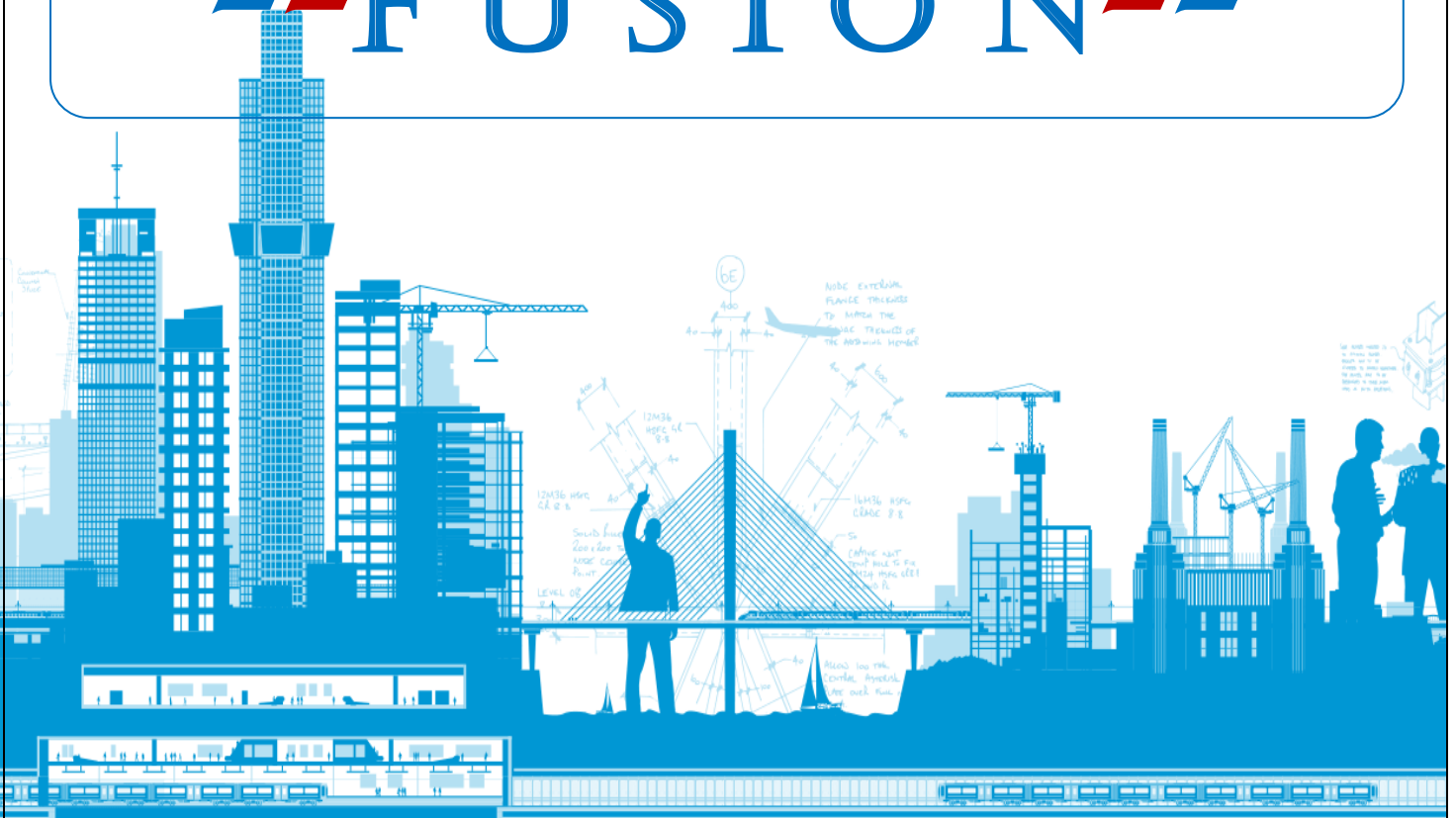




DEPARTMENT OF CIVIL ENGINEERING NEWSLETTER

Volume 10; Issue 3 | October to December 2021

--FUSION--





Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

**DEPARTMENT OF CIVIL ENGINEERING
NEWSLETTER
October - December 2021**

FUSION

Volume 10; Issue 3 | October to December 2021

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Webinar

Faculty wise Academic Contributions

Technical Note

Webinar

Department of Civil Engineering in association with Engineering Students Association* organizing a Webinar on “National Building Code” for the students of II Year and III Year on 8.10.2021.



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Deemed to be University Estd. as 1 of UGC Act, 1956

School of Mechanical and Construction
Department of Civil Engineering
in association with
Civil Engineering Students Association

Cordially invites you for the Webinar on
“NATIONAL BUILDING CODE”
(08-10-2021)

08-10-2021

Google Meet

10.30 AM

<https://meet.google.com/ewt-sphg-bzf>

Resource Person:



**Mrs. G. Bhavani, Scientist and Head,
Bureau of Indian Standards, Chennai.**

In the presence of
Col. Prof. Vel. Dr. R. Rangarajan
Chancellor & Founder President
Dr. Sagunthala Rangarajan
Foundress President
Dr. S. Salivahanan
Vice-Chancellor
Dr. A. T. Ravichandran,
Dean - Academics
Dr. S. Irudayaraj
Dean - SoMC

Convener
Dr. A. Geetha Selvarani, Prof. & Head,
Department of Civil Engineering

Co-ordinators
Dr. S. Selvakumar, Mrs. S. Sivaranjani, Mr. T. Udhayakumar.



Webinar on National Building Code

Department of Civil Engineering in association with Engineering Students Association organized a Hands-on training on the topic “Project Management” for the students of II Year and III Year on 09.10.21.



SMART
ROOF & FAB

Vel Tech
Rangarajan Dr. Sagunthala
VELT Institute of Science and Technology
(Chartered in the February Term, via U of T.T.C. Act, 1979)

ICF
Indian Concrete Federation

School of Mechanical and Construction
Department of Civil Engineering
in association with
Civil Engineering Students Association

Cordially invites you for the Webinar on
“Project Management - Hands on Training”
(09-10-2021)

09-10-2021

Google Meet

11.00 AM

meet.google.com/tpj-sule-tob

Resource Person



Mrs. Bhavana Chander Das, Manager,
Smart Roof and fab, Structural steel and PEB Speciality, Chennai.

In the presence of
Col. Prof. Vel. Dr. R. Rangarajan
Chancellor & Founder President
Dr. Sagunthala Rangarajan
Foundress President
Dr. S. Salivahanan
Vice-Chancellor
Dr. A. T. Ravichandran,
Dean—Academics
Dr. S. Irudayaraj
Dean - SoMC

Convener
Dr. A. Geetha Selvarani, Prof. & Head,
Department of Civil Engineering

Co-ordinators
Dr. S. Selvakumar **Mrs. S. Sivaranjani** **Mr. T. Udhayakumar**



Hands on Training on Project Management

Cube Test Competition

On behalf of ICI student chapter Cube Test Competition has been organized on 30.10.21. The students of our Institution has been actively participated in the competition and got prizes.

**VEL TECH RANGARAJAN DR. SAGUNTHALA R & D INSTITUTE OF
SCIENCE AND TECHNOLOGY**

"HIGHEST EARLY STRENGTH CONCRETE CUBE COMPETITION - 2021"

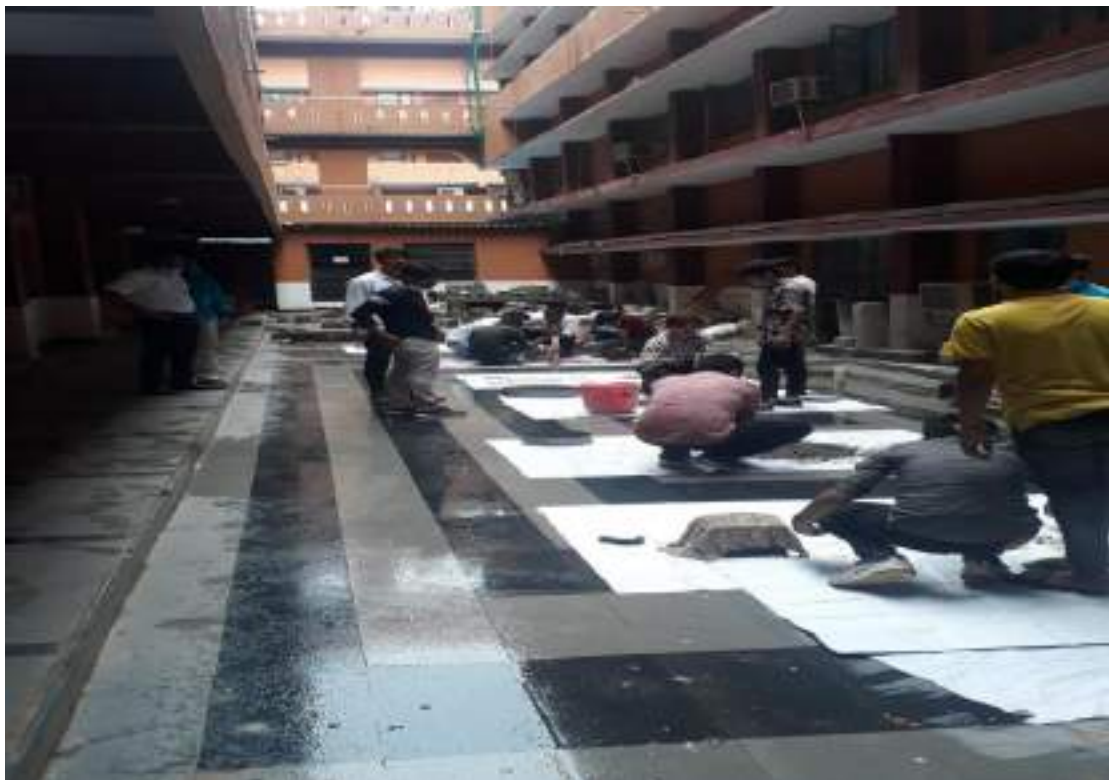


Date : 30th October, 10.00 AM
Venue : Concrete Technology Lab - 1902

Organized by
THE DEPARTMENT OF CIVIL ENGINEERING
in association with
ICI- Vel Tech Student chapter



Indian Concrete Institute





Cube Test Competition

Guest Lecture

Department of civil Engineering has organized a guest lecture on “Applications of bacteria in Civil Engineering” for the students of II year and III year on 19.11.2021.



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Established under UGC Act, 1956)

SCHOOL OF MECHANICAL AND CONSTRUCTION
DEPARTMENT OF CIVIL ENGINEERING
Organizing Guest Lecture on
“Applications of Bacteria in Civil Engineering”





Resource Person

Dr. K. V. Arivizhiventhan

Post-Doctoral Fellow, School of Life Science,
Hubei University, Hubei, China

Date : 19th November, 10.30 AM

Venue : Mahatma Gandhi Auditorium

Guest Lecture

Department of civil Engineering has organized a guest lecture on “Varied flow in Applied Hydraulic Engineering” for the students of II year and III year on 02.11.2021.





Guest Lecture on Varied flow in Applied Hydraulic Engineering

Faculty wise Academic Contributions

Participations

Dr. M.Vinod Kumar

Participated in One Week Online Training Programme on “Green and Sustainable Energy Environment” at National Institute of Technical Teachers Training and Research (NITTTR), Chennai, Tamil Nadu, 25/10/21-29/10/21.

Participated in “Modern MATLAB for Civil Engineering Teaching and Research” at Vellore Institute of Technology, Vellore on 17/11/21.

Mr. T.UdayaKumar

Participated in ATAL One Week FDP on "Digital Transformation Trends in Construction Industry" at Sona College of Technology from 04/10/2021 to 08/10/2021.

Participated in ATAL One Week FDP on "Advanced Concrete Technologies" at Osmania University from 08/11/2021 to 12/11/2021.

Mrs. M. Jayadurgalakshmi

Participated in ATAL One Week FDP on "Digital Transformation Trends in Construction Industry" at Sona College of Technology from 04/10/2021 to 08/10/2021.

Participated in ATAL One Week FDP on "Advanced Concrete Technologies" at Osmania University from 08/11/2021 to 12/11/2021.

Dr.J.Logeswari

Participated in ATAL FDP on "Experimental learning in Geotechnical Engineering" at NIT NAGPUR on 19/11/21.

Paper Publications

K. RajeshKumar, P. O. Awoyera, G. Shyamala, Vinod Kumar, N. Gurumoorthy, S. Kayikci, L. M. Bendezu' Romero, A. Krishna Prakash, "Structural Performance of Biaxial Geogrid Reinforced Concrete Slab", Springer: International Journal of Civil Engineering, 2021.

Consultancy

Done consultancy work to M/s. DIVISIONAL ENGINEER/ CENTRAL / MAS / SOUTHERN RAILWAYS/ CHENNAI DIVISION/ CHENNAI - 600003, for Value of Rs.15000

Patent

Filled Indian Patent (Ref. No. 202141044773) under the title "METHOD OF CONSTRUCTING LIGHTWEIGHT CONCRETE SLAB" in Nov 2021.

Filled Indian Patent (Ref. No. 202141054898) under the title "A NOVEL LIGHT WEIGHT CONCRETE BUBBLE DECK COMPOSITE SLAB INTEGRATED WITH VARIOUS PROFILED STEEL SHEETS FOR FLOORING SYSTEM OF TALL BUILDINGS" in Nov 2021.

Technical Note by Student

Difference between Solar Panels and Solar Roof Tiles

Jambey Tashi – VTU 13810 – III Year

Solar Panels	Solar Roof Tiles
Solar panels have photovoltaic (PV) cells fitted to mounting brackets that sit over roof tiles or slates.	Solar roof tiles are mini solar panels installed alongside the tiles like normal roof tiles rather than sitting on top of them.
Solar panels are not a replacement for roof tiles.	Solar tiles are designed to blend with the roof's aesthetics. It can be installed as a replacement for traditional roofs.
Solar panels can be installed on any type of roof system. They are suitable for any roof pitch and angle.	Solar tiles are ideal only for replacing the existing roof or a new roof design. Solar roof tiles require a specific pitch and slope. They cannot be angled and adjusted like traditional solar panels.
Solar panels have a bulky design. They protrude out from the roof, giving a poor appearance.	Solar roof tiles can be installed to blend with the existing tiles or be installed as new tiles, giving a similar look to traditional roofs.
Solar panels are available either in black or blue colors.	Solar tiles are designed in colors to blend with or even replicate the existing tiles.
Solar panels can be replaced easily if damaged.	Solar tiles are built as functional tiles or shingles. Their replacement is a tough procedure.
Solar panels are less expensive compared to solar tiles.	The installation and material costs of solar tiles are high compared to solar panels as they use new technology and are less common.

Editorial Board

Chief Editor : Dr. A. Geetha Selvarani

Professor & Head

Editors : Mrs. S. Sivaranjani, AP/Civil.

Mr. J. Saravanan, AP/Civil.

Students : IV Year: Vtu11711 Imnayangla Jamir

III Year: Vtu13810 - Jambey Tashi

