

Volume 3 Issue 1  
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DEPARTMENT  
OF  
CIVIL ENGINEERING

*presents*

CIVILIZATION



# VISION

- ❖ *To be a Department imparting knowledge in Civil Engineering Education, Research, Entrepreneurship and Industry outreach services for creating sustainable infrastructure and enhancing the quality of Life with professional and ethical values.*

# MISSION

- ❖ *To provide an effective learning environment enabling to be a competent Civil Engineer.*
- ❖ *To motivate Research and Entrepreneurial initiatives in the field of Civil Engineering.*
- ❖ *To inculcate ethical values to serve the society with high order Professionalism.*

# *Self-Compacting Concrete – The Future*

In the field of advance concrete research, SCC contributes a revolutionary part for the development. SCC is impending out of its infancy. In pre-cast concrete industry, SCC has a large impact due to its high performance. SCC offers much compensation and can be effortlessly produced and controlled. A lot of research all over the world is being carried out to explore all the possible applications and properties of SCC. Self-compacting concrete finds wide scope in the construction of various structures which play a vital role in country's development as well as future aspects of advanced technology.



**Fig. 1 Arlanda Airport Control Tower, Stockholm, Sweden**

- ❖ Hybrid RCC Structures such as Shear Walls, Concrete Bracings, in-fill Tubes, etc.
- ❖ Building Infrastructure such as schools, government buildings, hospitals, shopping complex, etc.
- ❖ Bridges and their various components like anchorages, arch, beams, girders, tower, pier, joint between pier & girder and others.
- ❖ Transportation Infrastructures and Box Culverts.
- ❖ Concrete filled steel tubes.
- ❖ Tunnel Linings and immersed tunnels.
- ❖ Dams (Concrete).
- ❖ High Performance Structures which resist seismic load, wind forces, blast loads, debris impact loads, hydrostatic and hydrodynamic in harsh conditions.
- ❖ Hydraulic Structures like Water Tank, Waste Water Plant, Canal and River Regulatory Structures.

### ***Worldwide Utilization and Application of SCC***

The importance and its usage of SCC have been found out from various literatures. In the current scenario of modern construction, SCC plays an important role to fulfill the demand of modern architectural and complex indeterminate structural construction having complex geometrical configurations. Now, in the existing days of heavy and large modern reinforced concrete construction having complex formwork and reinforcement demanding to handle the field's multi-faceted constraints, with better concreting conditions.

The utilization and application of SCC in various countries is described:

#### ***Europe***

- ❖ In France, ready-mix concrete industry utilizes SCC to provide a noise free concrete which can be used 24 hours a day in urban areas.

- ❖ Sweden implemented the SCC in the construction of various structures such as bridges, tunnels, foundations and in many more infrastructures. The usage of SCC by Sweden's precast and ready-mix industry was almost 10% of total concrete convention in 2003.
- ❖ Arlanda Airport Control Tower, Stockholm, Sweden is an excellent example of the use of SCC. SCC was used in order to achieve the concreting speed and to ensure high-quality concrete placing without vibration. The reduced noise level during the placing of the concrete enabled concreting during the night time as well.
- ❖ In the Netherlands, SCC is predominantly preferred in the pre-cast industry. SCC is used to construct Pre-cast slabs, beams, walls, columns, arches and bridge elements, etc. More recently, fiber reinforced SCC has been used in the production of lighter & thinner floor elements.
- ❖ SCC has been utilized in Norwegian highway structures.
- ❖ In UK, an official initiative has been taken by The Concrete Society to expand the use of SCC to replace normal concrete.



**Fig. 2 PASCHAL plant premises in Aarhus**



**Fig. 3 The Akashi-Kaikyo Bridge, Japan**

## ***Japan***

- ❖ One of the first most advanced uses of SCC in Japan is the construction of the Akashi-Kaikyo Bridge system and its deck slab in Japan that constructed well and opened in April 1998.

- ❖ SCC was implemented to accelerate the placement of the 290000m<sup>3</sup> of concrete in the 2 anchorages of the bridge and also reduced the construction time.
- ❖ Current application of SCC in Japan is the construction of latticework and tunnel linings. The usage of SCC limits bleeding and laitance at the joints thereby preventing cold joints.



**Fig. 4 Tunnel Lining construction in Japan**

### ***United States of America***

- ❖ There are the wide ranges of SCC design and its implementation in USA.
- ❖ One of the examples is the construction of the Trump Tower in New York City. While construction, concrete had to be poured between closely placed reinforced elements in sub-zero weather and the use of high-strength SCC was thus, imperative.
- ❖ Another application in the US was the construction of houses in Houston.
- ❖ A mixture of a low compaction energy concrete, tentatively called slip-form self-consolidating concrete, was developed at Iowa State University. This was done to reduce the premature cracking in slip-form paving due to internal vibration causing over-consolidation.



**Fig. 5 The Trump Tower in New York City**

## ***China***

The various applications of SCC in China are as follows:

- ❖ UHP-SCC with high rise pumping technology has been proven to satisfy the practical needs in the construction of 411m West Tower project in Guangzhou.
- ❖ New Station of Chinese Centre Television, an important landmark in Beijing, is constructed using SCC.
- ❖ Tower A of the International Trade centre, Phase three, the highest building in Beijing is also constructed using SCC.
- ❖ The outer shell of the National Stadium in Beijing is also made using SCC.



**Fig.6 CCTV New Station, Beijing**

## ***Australia***

- ❖ Twin Bridges over Tarcutta Creek, Hume Highway Tarcutta Alliance, New South Wales, Australia used SCC for its sub-structure.
- ❖ Railway Under-bridge over Boundary Street at Roseville, New South Wales, Australia used SCC and the SCC mix design included ballast aggregates and high dose of supplementary cementitious materials to minimize heat of hydration.

## ***Germany***

- ❖ The guidelines of Deutscher Ausschuss für Stahlbeton (German commission for reinforced concrete) which regulates the manufacturing and casting of SCC came into effect since December 2004 in Germany.
- ❖ In the BMW plant in Leipzig as well as the Phaeno Science Centre in Wolfsburg, each more than 4000m<sup>3</sup> of SCC was used.
- ❖ Special building elements used in various buildings in Germany made in precast construction using SCC: columns with a geometrically complex design and bubble decks produced with powder type SCC with flyash (BBS Bitter Beton Systeme, Goch).

## ***Development of SCC in India***

- ❖ The advancements of SCC are measured as the greatest development in construction industry due to its several unequal benefits as it performs as a multi-purposed high-performance concrete. In India, this advance technology is yet to realize its full potential and use.
- ❖ Many institutions, researchers, and companies have been working on SCC Technology. Example: Central Road Research Institute (CRRI) 2005, New Delhi, has been working since the year 2000 and carried out momentous research work on several aspects of SCC.



- ❖ SCC technology was a known since the time Nuclear Power Corporation of India Limited (NPCIL) was planning for vast enlargement of power generation within a squat period of time. This idea will save time, cost, enhance quality, durability and above all, a greener concept.
- ❖ SCC has been used in the construction of Kaiga nuclear power plant as well as Delhi Metro in India.
- ❖ Due to various advantages of SCC, many companies in India are utilizing SCC for speedy completion of the construction work.



**Fig. 7 Complex column made using SCC**



**Fig. 8 Bubble decks produced with powder type SCC with Fly-ash**

## ***Conclusion***

SCC represents the recent advancement in concrete technology. The application of SCC is mainly a contribution towards an enhancement of the concrete technologically, economically and ecological/social forms at the manufacturing of the concrete. SCC came as an answer to the raised conditions of RCC buildings durability and high-quality stable and polished surface of architectural concrete. Presently, it is very ardently and widely used material in construction sites as well as manufacturing of precast members. Practical applications extend from large infrastructure project such as bridges, tanks, retaining walls, tunnels, etc. onto architectural buildings. Thus, SCC is considered as a future concrete and will allow the engineers/designers to design and build structures that last a century and beyond.

***By Mr. M. Manoharan***

***Assistant Professor***

***Department of Civil Engineering***

# *Transparent Aluminium*



One of the latest construction technologies to emerge in this ever changing and futuristic world we live in is transparent aluminium. Aluminium itself has been around a while and is an extremely popular method to use on certain construction projects. It's light and durable qualities make it one of the most key engineering materials of current times. Combining these qualities with adding a most aesthetically pleasing transparent element could open up a whole host of new possibilities.

It has been the ambition of engineers for a long time to find a material that combines the strength and durability of metal with the crystal-clear purity of glass. Such a "clear metal" could be used to construct towering glass-walled skyscrapers that require less internal support. This has the added benefit of being tougher, stronger and harder than glass. Known as transparent aluminium, or ALON, the cutting edge material is already being used by the military for making armoured windows and optical lenses.

To put this into technical terms, transparent aluminium is a crystalline substance made of aluminate powder alloys. The basic concept of transparent aluminium is that these powders are highly compressed and heated to extreme temperatures. After some time, the material is then cooled and polished and shaped into its desired form. From being put through certain tests, it has been discovered ALON can resist powerful bullets and is an extremely strong material. This is why it is popular with military projects currently, but the feeling is it will be used more frequently in the near future.

We shouldn't be that surprised by the emergence of transparent aluminium. Star Trek fans could have told us this would happen. They may recall in Star Trek: The Voyage Home, a scene where Scotty talks into a computer mouse and then instantly figures out keyboards and gives away the formula for transparent aluminium. So, we were warned, and the feeling is transparent aluminium will live long and prosper.

### ***Five Predictions for the Future of Office Buildings***



We're already starting to see a change in today's office buildings, but what exactly will they look like in the future? It's safe to say that the traditional office buildings are dying out. And good riddance. Businesses are becoming more and more aware of the health and happiness of its employees, and the influence this has on productivity and the business itself.

### ***Design***

"Designed with employees in mind". Physical and mental wellbeing will be taken into consideration more when the offices of the future are designed. Years ago, when the supervision of employees was not assessed through CCTV or key passes, open plan rooms with rows of desks were common in many businesses. This was about hypervisibility and therefore focus out of fear but as the business world changed, so did the office layouts. We moved on to the dreaded fenced off cubicle. It was thought

that the lack of distractions would increase productivity however, it left workers feeling unmotivated and uninspired. How creative can you get when you're staring at 3 grey walls? We seem to have now adopted a combination of both; an open plan office for approachability whilst still ensuring desks have a small screen or panel between them to give employees a certain degree of separation in order to concentrate. So perhaps in the next 10 years we'll have free environments where you'll be able to choose or customise your work space.

### ***Natural light and window accessibility***

It has been recognized as very important for staff stimulation and happiness. I predict that office buildings of the future will have more of a clean, light and airy feel to them promoting a sense of freedom and inspiration. Of course, there is the obvious development of colorful ball pits and slides seeping their way into our workplaces, which sounds like fun but fails to produce long terms effects. This is a temporary side effect of the workplace development. A draft that will eventually be put in the bin; a snap chat story that will in 10 seconds be lost forever. You won't find happiness in a hammock.



### ***Technology***

2020 will be the year that technology starts to really mature. It might not be the

year we see 5G... but that's a separate blog. We're already embracing technology as we now better understand how it can enhance our lives; make us work quicker, more efficient, and even faster.

### ***Augmented and virtual reality***

AR & VR provides a record of the building, and this allows the clients to explore the designs before construction. It could have a big role in how we converse with clients resulting in a need for our workplaces to change. Many businesses nowadays not only rely on having the latest tech, but *are* the latest tech. Devices, gadgets, the internet; they're all such a large part of our lives now. So, I predict that because businesses themselves will be tech related, the office buildings will have to reflect this. As a customer, what would you think walking into a technology office and seeing out of date computers and filing cabinets? Also, the use of community hubs will become a staple in many businesses, where staff can feel like they belong and have a collective body behind them, not a corporate company watching them. In full, I think it's fair to say that technology will take the lead in how our offices will look in the near future.



### ***Green***

In the other sense of the word “green”, I predict that businesses will start to reduce their carbon footprint and become eco-friendlier. Why? Because they'll have

to, and its' what workers want. Many actively seek this out when looking for employment already. (Not to mention the global benefits if more companies start to do this.) So, it's easily a way for businesses to stand out from the rest when recruiting. Staff will feel significantly better about their jobs if they know they are doing their bit for the environment. An extreme example of this is The Edge building in Amsterdam, often referred to as a smart building, it is aware of how much energy it is consuming and actually produces more electricity than it uses through walls of solar panels. The building also hosts a number of sensors which will monitor the amount of people in the room and adjust the temperature or turn lights on and off.

*By Mrs. S. Yugasini*  
*Assistant Professor*  
*Department of Civil Engineering*

# *Oresund Bridge*

The Oresund Bridge connects Amager and Oresund in Denmark with Skane, Sweden, a total length of just more than 10 miles (16.4 km). The road across the Oresund Strait connects the metropolitan areas of Copenhagen and Malmo.

In 1991, the governments of Denmark and Sweden agreed to jointly construct this massive project, and while it took a while, the Oresund Bridge officially opened on July 1, 2000.

The Oresund Bridge connects Malmo, at the bottom of Sweden's southwest coast, to a region of Denmark near Copenhagen. The areas are separated by several heavy shipping channels between the North Sea and the Baltic Sea, but they share a Nordic cultural heritage. For many years, people had pondered how to better link them. Both countries believed there could be increased educational, economic and cultural benefits if it were easier to move between them. After years of debate, in March 1991 Sweden and Denmark signed an agreement to create a crossing. Each country would hold a 50% stake in the project. It was the first step toward the Oresund Bridge.



**Aerial view showing the Oresund Bridge. Denmark in on the left and Sweden in on the right. The visible white arc in the middle of the water is Peberholm, the artificial island**



The Oresund Bridge is a cable-stayed bridge. In this kind of bridge, a series of strong steel cables attach the bridge deck to high towers called pylons that support the bridge's weight. The arrangement of cables and tall pylons often gives these bridges a distinct, fan-like appearance. The bridge entrance is located in Malmö, Sweden and dredging for it began in 1995.



Most of the bridge parts, including the piers, supporting columns below the deck, and the spans (the parts that hold the area you drive on), were made of steel and concrete and prefabricated on land. As each section was completed, it was taken to the site by a special heavy-lifting, sea-going crane and installed on the bridge. The end result was a two-level bridge with a path for the rail system on the lower deck and a roadway for vehicles on the upper deck.

### ***Safety and Traffic***

The Oresund Bridge has generated a significant increase in traffic across Oresund. Today, crossing the bridge by car is a matter of 10 minutes. Vehicles pay toll charges at the toll station at Lernacken on the Swedish side.

The railway is an important part of the Oresund Bridge. Around two-thirds of those travelling across the Oresund Bridge go by train, with the journey between Malmö and Copenhagen taking 35 minutes.

Two traffic controllers are permanently on duty at the traffic centre next to the toll station at Lernacken. By way of CCTV cameras and automatic alarm systems, the controllers continually monitor traffic and are prepared for any emergency.

The speed limit on the motorway is usually 90 km per hour in the tunnel and 110 km per hour elsewhere on the link.

In the event of an emergency, assistance can be summoned through the emergency telephones located along the link. The tunnel is equipped with emergency exits as well as alarm cabinets at intervals of 88 metres, which contain emergency telephones, fire extinguishers and fire alarms.

### ***Artificial Island***



The artificial island of Peberholm does not merely connect the bridge and tunnel. Because its flora and fauna have been allowed to develop freely, undisturbed by man, the island has become a haven for biologists from Denmark and Sweden.

Since Peberholm's construction, Lund's Botanical Association has identified more than 500 different species of plant. Although birch, willow, oak, beech and poplar are all found on the island, the strong winds have restricted their growth. Copenhagen's Zoological Museum has collected beetles and butterflies on the island.

Peberholm serves as a popular breeding ground for birds as well as providing a habitat for the rare green toad. The island is also home to rare spiders and insects.

***By M. J. Satishanand***  
***Final Year Civil B***

# ***DEPARTMENTAL ACTIVITIES***

## ***STUDENT ACHIEVEMENTS***

### ***STUDENT PARTICIPATION IN ONLINE WEBINAR / ONLINE COURSE / ONLINE QUIZ PROGRAMS***

<b>Sl. No.</b>	<b>Name of the Student</b>	<b>Year/ Section</b>	<b>Course Title</b>	<b>Organized by</b>	<b>Event</b>	<b>Date</b>
<b>JULY 2020</b>						
1.	Praveen S.	III B	Entrepreneurial Quiz 2020	REC	EQ - Trivia'20	19.07.2020
2.	Aravinthan K.	IV B	National Level Quiz	The National Institute of Engineering, Mysuru, Karnataka	Quiz (Online)	20.07.2020
3.			Technical Webinar on "Being an Interior Designer"	EGS Pillay Engineering College	Webinar	20.07.2020
4.			EQ - Trivia'20	Rajalakshmi Engineering College	Entrepreneurial Quiz 2020	19.07.2020
5.			Technical Webinar on "Prefab Construction building the future"	St.Joseph College of Engineering,OMR	Webinar	15.07.2020
6.			National Level Technical Quiz on "Geopolymer Concrete"	SRM Institute Of Science and Technology	Quiz (Online)	06.07.2020

7.			Technical Webinar on "IOT Application in Construction Industry"	Saveetha School of Engineering	Webinar	04.07.2020
8.			COVID -19 - Pre and Post lockdown	Rajalakshmi Engineering College	Quiz (Online)	03.07.2020
9.			Technical Webinar on "Sustainable Infrastructure For the 21st Century - doing more with less"	Crescent inovation and Incubation Council	Webinar	03.07.2020
10.			COVID -19 - Pre and Post lockdown	Rajalakshmi Engineering College	Quiz (Online)	02.07.2020
11.			COVID -19 - Pre and Post lockdown	Rajalakshmi Engineering College	Quiz (Online)	01.07.2020
12.			National Level Quiz on "Structural Analysis"	St. Joseph's College of Engineering	Quiz (Online)	01.07.2020
13.	Ranjithraj R.	IV B	COVID -19 - Pre and Post lockdown	Rajalakshmi Engineering College	Quiz (Online)	01.07.2020
14.		IV B	National Level Quiz on "Structural Analysis"	St. Joseph's College of Engineering	Quiz (Online)	01.07.2020
15.	Shanmughapriyaa E. P.	IV B	National webinar on "Cyber Security as a Career for Job Aspirants"	Kuppam Engineering College, Kuppam, AP	Webinar	02.07.2020
16.		IV B	National Level Quiz on	St. Joseph's College of Engineering	Quiz (Online)	01.07.2020

			"Structural Analysis"			
17.	Shine S.	IV B	National Level Quiz on "Structural Analysis"	St. Joseph's College of Engineering	Quiz (Online)	01.07.2020
18.	Singaram C. T.	IV B	Green Buildings and Sustainability	Tagore Engineering College	Webinar	01.07.2020
19.	Sowmiya T.	IV B	National Level Technical Quiz on "Geopolymer Concrete"	SRM Institute Of Science and Technology	Quiz (Online)	06.07.2020
20.			Technical Webinar on "IOT Application in Construction Industry"	Saveetha School of Engineering	Webinar	04.07.2020
21.			COVID -19 - Pre and Post lockdown	Rajalakshmi Engineering College	Quiz (Online)	02.07.2020
22.			COVID -19 - Pre and Post lockdown	Rajalakshmi Engineering College	Quiz (Online)	01.07.2020
23.			National Level Quiz on "Structural Analysis"	St. Joseph's College of Engineering	Quiz (Online)	01.07.2020

**AUGUST 2020**

1.	Manish A.	II A	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
2.	Praveen.S	III B	Webinar titled "Recent Advances in Materials &	REC	Webinar	19.08.2020

			Technology - A Futuristic Perspective"			
3.		III B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G Civil Engineering"	REC	Webinar	08.08.2020
4.		III B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
5.		III B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
6.	Prithvi E	III B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G Civil Engineering"	REC	Webinar	08.08.2020
7.		III B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
8.	Shashank N	III B	Webinar titled "AIR POLLUTION - Effects and Mitigation strategies"	REC	Webinar	29.08.2020

9.		III B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
10.		III B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
11.	Sreemathi R.	III B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
12.		III B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
13.	Suganthi D	III B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G Civil Engineering"	REC	Webinar	08.08.2020
14.		III B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
15.	Sumithra T	III B	Webinar titled "Recent Advances in Materials &	REC	Webinar	19.08.2020

			Technology - A Futuristic Perspective"			
16.		III B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
17.	Yogashree G	III B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
18.		III B	Photography Contest	REC	Webinar	20.08.2020
19.	Srinivasan D.	III B	Webinar titled "AIR POLLUTION - Effects and Mitigation strategies"	REC	Webinar	29.08.2020
20.		III B	3days Entrepreneurship Development Program on "Modern Construction Project Management Tools (Introduction to Oracle, Primavera, Power Project & Cost X"	SVCE	Entrepreneurship Development Program	19.08.2020
21.		III B	Webinar titled "Recent Advances in Materials & Technology - A	REC	Webinar	19.08.2020



			Futuristic Perspective"			
22.		III B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G Civil Engineering"	REC	Webinar	08.08.2020
23.	Maria Don Bosco C.	IV A	National Level Project Competition	ENACTUS	ENACTUS National Level Competition	01.08.2020
24.		IV B	Webinar titled "AIR POLLUTION - Effects and Mitigation strategies"	REC	Webinar	29.08.2020
25.		IV B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
26.	Priyadharshini	IV B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G Civil Engineering"	REC	Webinar	08.08.2020
27.		IV B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
28.	Sandiya S	IV B	Webinar titled "AIR	REC	Webinar	29.08.2020

			POLLUTION - Effects and Mitigation strategies"			
29.		IV B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
30.		IV B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G Civil Engineering"	REC	Webinar	08.08.2020
31.		IV B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
32.		IV B	Webinar titled "AIR POLLUTION - Effects and Mitigation strategies"	REC	Webinar	29.08.2020
33.	Shanmughapriyaa E P	IV B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
34.		IV B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G	REC	Webinar	08.08.2020

			Civil Engineering"			
35.		IV B	Technical Webinar titled "Bridges - Behaviour and Performance Assessment"	REC	Webinar	01.08.2020
36.		IV B	Short course on "Learn to Design your own Solar Home System"	Energy Swaraj Foundation in association with AISSMS College of Engineering, Pune	Short course	08.08.2020
37.	Priyadharshini	IV B	Short course on "Learn to Design your own Solar Home System"	Energy Swaraj Foundation in association with AISSMS College of Engineering, Pune	Short course	08.08.2020
38.	Sandiya S	IV B	Short course on "Learn to Design your own Solar Home System"	Energy Swaraj Foundation in association with AISSMS College of Engineering, Pune	Short course	08.08.2020
39.		IV B	Webinar titled "AIR POLLUTION - Effects and Mitigation strategies"	REC	Webinar	29.08.2020
40.	Sowmiya T	IV B	Webinar titled "Recent Advances in Materials & Technology - A Futuristic Perspective"	REC	Webinar	19.08.2020
41.		IV B	Webinar titled "The Transformation Needed From a 2G Civil Engineer to 5G Civil Engineering"	REC	Webinar	08.08.2020

**SEPTEMBER 2020**

<b>1.</b>	Bhuvan M	III A	PALS Virtual Industrial Visit with a specific focus on Project Management	L&T Hydrocarbon division, Vadodara	PALS Virtual Industrial Visit	16.09.2020
<b>2.</b>	Shashank N	III B	PALS Virtual Industrial Visit with a specific focus on Project Management	L&T Hydrocarbon division, Vadodara	PALS Virtual Industrial Visit	16.09.2020

***ONLINE COURSE COMPLETION***

<b>S. No.</b>	<b>Student Name</b>	<b>Roll No</b>	<b>Class</b>	<b>Course Title</b>	<b>Offered by</b>	<b>Date of Completion</b>	<b>Remarks</b>
1.	Sree Varrun D	180601067	III B	BIM Fundamentals for Engineers	Coursera	28-Jul-20	Online non-credit course authorized by National Taiwan University
2.	Srimathi C	180601070	III B	Renewable Energy and Green Building Entrepreneurship	Coursera	1-Jul-20	Online non-credit course authorized by Duke University
3.				Master in Bitumen for better roads and innovative applications	Coursera	7-Aug-20	Online non-credit course authorized by Ecole des Ponts Paris Tech

# ***FACULTY ACCOMPLISHMENTS***

## ***PATENT FILED***

- Dr. A. Rose Enid Teresa has filed a Patent on the Invention “**New Composition and Making of Bricks from Plant-Fibres and Waste by-products**” in September 2020 (Application No.: 202041034656 A).

## ***RESEARCH PROPOSALS SUBMITTED***

- Professor Dr. S. Geetha submitted a research proposal to DST–STAR on “**Engineered Cementitious Composite for Earthquake Resistant Structures**” for a funding of Rs 42,00,000/- in July 2020.
- Dr. S. Geetha, Dr. M. Selvakumar and Mrs. S. Muthu Lakshmi submitted a research proposal to DST-Ministry of Mines on “**Potential Use of Mine Tailings in the Manufacture of Sustainable Construction Materials as Bricks and Pelletized Artificial Aggregates**” for a budget of Rs 42,53,550/- in September 2020.

## ***JOURNAL PUBLICATION***

- Journal paper titled “**Optimization of Multifunctional Nano Cement Composite for Self – Sensing**” by Dr. S. Geetha & Dr. M. Selvakumar is published online in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with Impact factor 0.97).
- Journal paper titled “**A State of art on the Behavior of Exterior Beam Column Joints Subjected to Cyclic Loading**” by S. Stella, R. Mercyshanthi, K. Subramanian & Dr. A. Rose Enid Teresa is published online in Journal of Critical Reviews, Vol. 7 (11), pp. 3311-3316 (Scopus Indexed).

- P. Muthaiyan, Dr. M. Uma Magesvari & M. Ammaiappan published a journal paper titled **“Study on Workability and Strength Properties of Sustainable Super Workable Concrete”** in Journal of Green Engineering Vol.10, Issue 6, pp. 2797-2810. (Scopus Indexed with impact factor 0.55).
- Journal paper titled **“A Study on performance of strength characteristics by partial replacement of cement with natural Zeolite and GGBS”** by S. Yugasini, Dr. M. Uma Magesvari, & P. Muthaiyan is published online in Journal of Critical Reviews Vol 7, Issue 19, pp. 434-446 (Scopus Indexed).
- Journal paper titled **“Predicting Soaked CBR of SC Sub grade from Dry Density for Light and Heavy Compaction”** by S. Muthu Lakshmi, Dr. S. Geetha & Dr. M. Selvakumar is published online in Materials Today: Proceedings, Elsevier Publisher <https://doi.org/10.1016/j.matpr.2020.08.558> (Scopus Indexed with Impact factor 0.97).
- Journal paper titled **“Characteristics of High Strength Concrete with Basalt Fibre and Glass Powder as Partial Replacement of Fine Aggregate”** by Dr. M. Selvakumar, Dr. S. Geetha, Snehakasthurirangan, Sithrubi & Sathyasriya has been accepted for publication in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with impact factor 0.97).
- Journal paper titled **“Strength Properties of Aerated Cement Composite Reinforced with Steel Fibres”** by Dr. M. Selvakumar, Dr. S. Geetha & S. Muthu Lakshmi has been accepted for publication in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with impact factor 0.97).
- Journal paper titled **“Correlating Unsoaked CBR with UCC Strength for SC and SP Soil”** by S. Muthu Lakshmi, M. Arshad Gani, V. Kamalesh, V. Mahalakshmi & P. M. Padmesh has been accepted for publication in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with impact factor 0.97).
- Journal paper titled **“Removal of Ammonia in Water systems using cell immobilization technique in surrounding environment”** by V. Varna Vishakar, C. Vidya, N. Hariharan & M. Ashik has been accepted for publication in

Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with impact factor 0.97).

## ***BOOK PUBLICATION***

- Dr. M. Selvakumar & Dr. S. Geetha have authored a book chapter on “**Predicting Particulate Air Pollution Using Line Source Models**” to be published in Springer Transactions in Civil and Environmental Engineering, S. M. Shiva Nagendra et al. (Eds): (Chapter 10) **Urban Air Quality Monitoring, Modelling and Human Exposure Assessment**, 978-981-15-5510-7, 429347\_1\_En, Springer Publications.
- Dr. S. Geetha and Dr. M. Selvakumar have authored a book on “**Design of Steel Structures**” which has been accepted to be published by YES DEE Publishing P Ltd. with ISBN Number. (In the process of Printing.)

## ***CONFERENCE PAPER PUBLICATION***

- Dr. M. Selvakumar & Dr. S. Geetha along with the students Sneha Kasthurirangam, Sithrubi and Sathyasriya presented a paper titled “**Characteristics of High Strength Concrete with Basalt Fibre and Glass Powder as Partial Replacement of Fine Aggregate**” in the International Virtual Conference on Advanced Materials Behaviour and Characterization (ICAMBC-2020) organized by Mattest Research Academy from 18<sup>th</sup> July 2020 to 23<sup>rd</sup> July 2020
- M. Ammaiappan, Dr. M. Uma Magesvari, P. Muthaiyan & S. Yugasini presented a paper titled “**A Study of California Bearing Ratio value on Improvement of weak soils using Rubber Tyre Chips & Powder**” in the International Virtual Conference on “Emerging Research Trends in Structural Engineering ERTSE-2020” organized by VIT Chennai on 16<sup>th</sup> and 17<sup>th</sup> July 2020.
- S. Muthu Lakshmi presented a paper titled “**Correlating Unsoaked CBR with UCC Strength for SC and SP soil**” in the International Virtual Conference on

Advanced Materials Behavior and Characterization (ICAMBC-2020) organized by Mattest Research Academy from 18<sup>th</sup> July 2020 to 23<sup>rd</sup> July 2020.

- M. Ammaiappan, Dr. M. Uma Magesvari, P. Muthaiyan & S. Yugasini presented a paper titled “**Geotechnical behavior of Low and High Compressibility of Soil Stabilized with Steel Slag**” in the International Virtual Conference on Innovative Solutions and challenges in Civil Engineering organized by Saveetha Engineering College, Chennai on 21<sup>st</sup> and 22<sup>nd</sup> August 2020.
- Dr. M. Uma Magesvari, P. Muthaiyan, S. Yugasini & M. Ammaiappan presented a paper titled “**Study of Fibre Reinforced Concrete Using Sustainable Materials**” in the International Virtual Conference on Innovative Solutions and challenges in Civil Engineering organized by Saveetha Engineering College, Chennai on 21<sup>st</sup> and 22<sup>nd</sup> August 2020.
- V. J. Vedhanayaghi, M. Manoharan, J. Jasper Daniel, S. Premkumar & S. Arun Bharathi presented a paper titled “**An Approach to derive Seismic Fragility Curves**” in the International Virtual Conference on Innovative Solutions and challenges in Civil Engineering organized by Saveetha Engineering College, Chennai on 21<sup>st</sup> and 22<sup>nd</sup> August 2020. This paper was selected for **Best Paper Award**.

## ***LECTURE DELIVERED***

- Dr. A. Rose Enid Teresa was invited as a Resource Person & delivered a lecture in “**National Level Online Faculty Development Programme**” on 8<sup>th</sup> July 2020 organized by Department of Civil Engineering, Tagore Engineering College.
- Dr. A. Rose Enid Teresa was invited as a Resource Person & delivered a lecture in Faculty Development Programme on “**Modern Development in Concrete and Construction Areas**” on 24<sup>th</sup> July 2020 organized by Department of Civil Engineering, SRM Institute of Science and Technology.

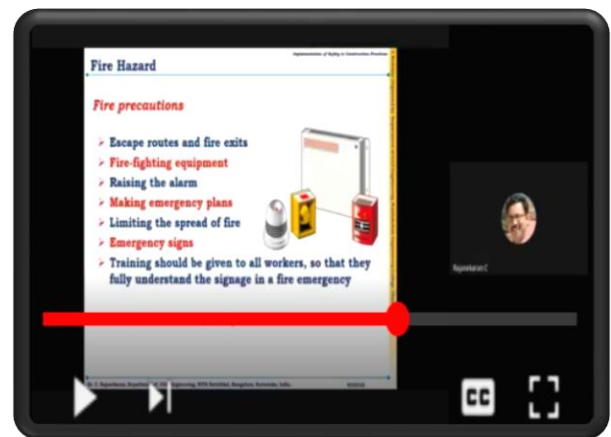
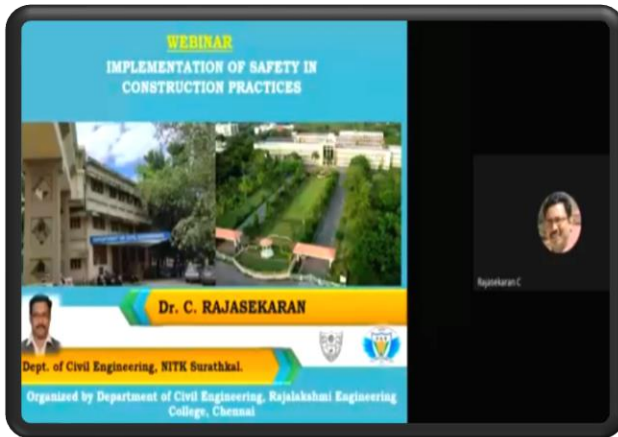


- S. Muthu Lakshmi delivered a lecture on **“Criteria 5 Faculty Information and Contributions” in AICTE Margdarshan FDP - Guided Walkthrough to NBA – SAR** on 29<sup>th</sup> July 2020 organized by Rajalakshmi Engineering College.
- Dr. A. Rose Enid Teresa delivered a lecture on **“Bridges – Behaviour and Performance Assessment”** in Technical Webinar organized by the Civil Engineering Department of Rajalakshmi Engineering College on 01<sup>st</sup> Aug’ 2020.
- Dr. S. Geetha delivered a lecture on **“Recent Advances in Materials & Technology – A futuristic Perspective”** in Technical Webinar organized by the Civil Engineering Department of Rajalakshmi Engineering College on 19<sup>th</sup> Aug’ 2020.
- Dr. M. Selvakumar delivered a lecture on **“AIR POLLUTION - Effects and Mitigation Strategies”** in Technical Webinar organized by the Civil Engineering Department of Rajalakshmi Engineering College on 29<sup>th</sup> Aug’ 2020.
- Dr. S. Geetha delivered a lecture on **“NBA SAR- Criterion –II” in AICTE sponsored Margdarshan Webinar** for GRT Institute of Engineering & Technology on 19<sup>th</sup> Sept’ 2020.

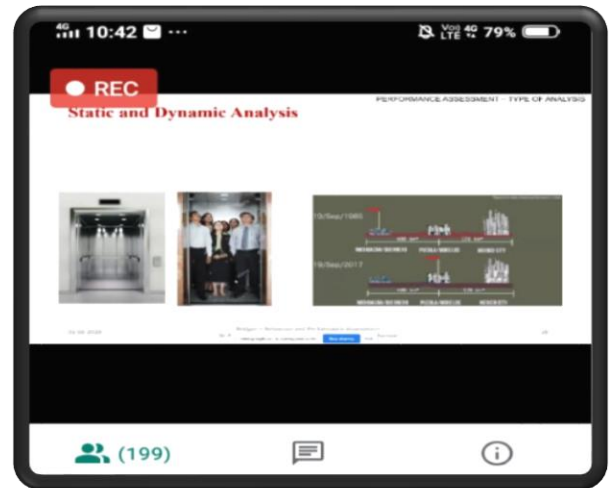
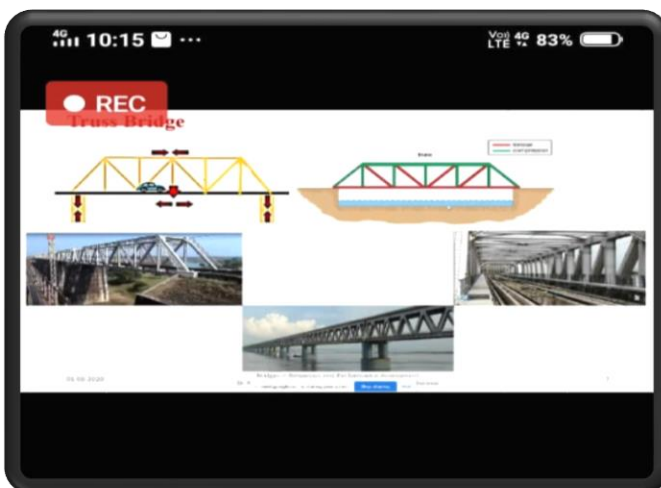
## ***TECHNICAL WEBINARS ORGANIZED BY THE DEPARTMENT***

The following Technical Webinars were organized by the Department of Civil Engineering in association with Indian Concrete Institute (ICI) & Institution’s Innovation Council (IIC).

- One day Technical Webinar was organized on **“Implementation of Safety in Construction Practices”** for the Civil Engineering students of REC through Google Meet. The lecture was delivered by Dr. C. Rajasekaran, Assistant Professor, National Institute of Technology, Karnataka, Suratkal. on 3<sup>rd</sup> July 2020.



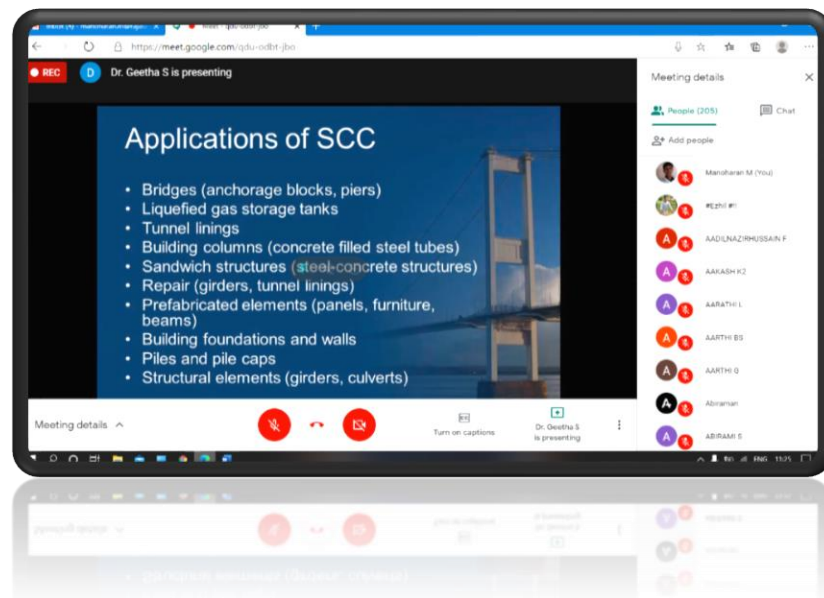
- One day Technical Webinar was organized on **“Emerging Technologies and BIM”** for the Civil Engineering students of REC through Google Meet. The lecture was delivered by Mr. Balasakthivel & Mr. Ramkumar, Designer/BIM Modeller on 29<sup>th</sup> July 2020.
- A Technical Expert Webinar on **“Bridges – Behavior and Performance Assessment”** was organized through Google meet for the Civil Engineering students of REC. The lecture was delivered by Dr. A. Rose Enid Teresa, Professor & Head, Department of Civil Engineering, REC on 1<sup>st</sup> August 2020.



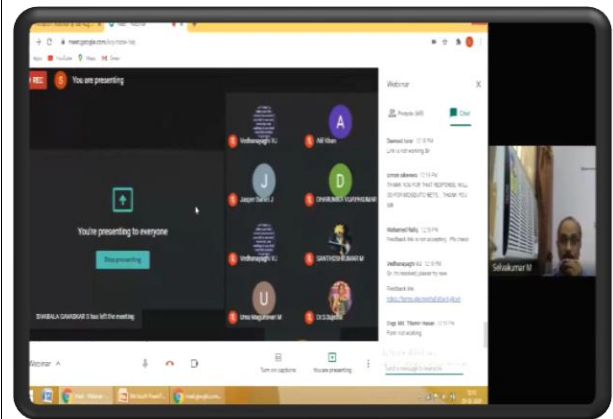
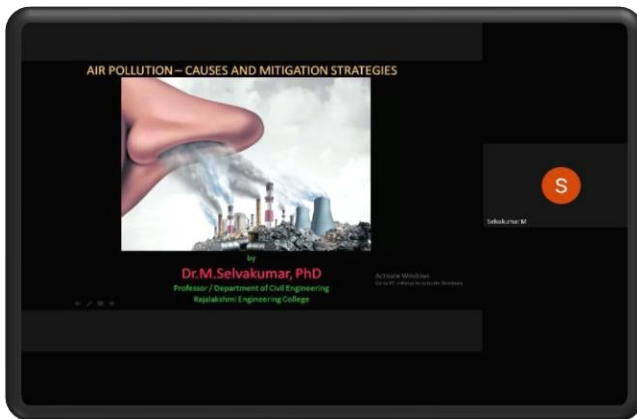
- A Technical Expert Webinar on **“The Transformation needed from a 2G Civil Engineer to 5G Civil Engineer”** was organized through Google meet for the

Civil Engineering students of REC. The lecture was delivered by Dr. D. Tensing, Professor in Civil Engineering, Director of Quality Assurance & Accreditation, Karunya Institute of Technology and Sciences, Coimbatore on 8<sup>th</sup> August 2020.

- One day Alumni Webinar on **“Engineering in Youth Leadership”** was organized through Google meet for the Civil Engineering students of REC. The lecture was delivered by Alumnus Mrs. Sanjena ND, Project Officer, UN SDSN Youth Doctoral Researcher, Tsinghua University on 8<sup>th</sup> August 2020.
- A Technical Expert Webinar on **“Recent Advances in Materials & Technology – A futuristic Perspective”** was organized through Google meet for the Civil Engineering students of REC. The lecture was delivered by Professor Dr. S. Geetha, Department of Civil Engineering, REC on 19<sup>th</sup> August 2020.



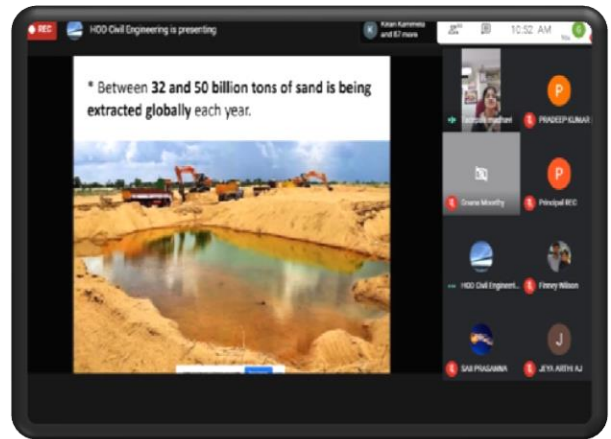
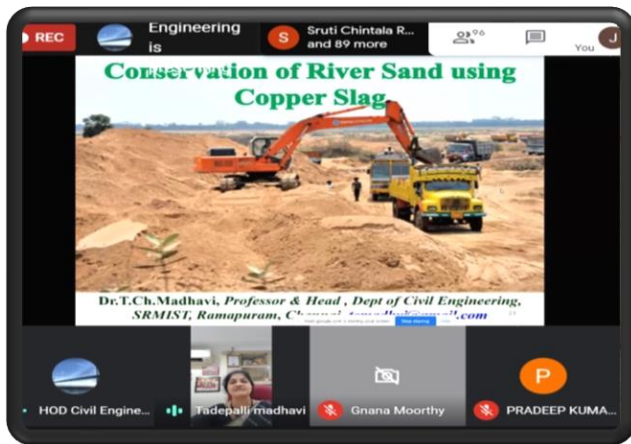
- A Technical Expert Webinar on **“AIR POLLUTION- Effects and Mitigation Strategies”** was organized through Google meet for the Civil Engineering students of REC. The lecture was delivered by Dr. M. Selvakumar, Professor & Dean, Department of Civil Engineering, REC on 29<sup>th</sup> August 2020.



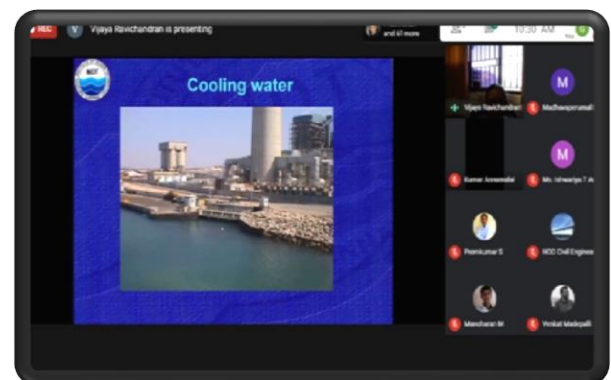
## ***NATIONAL LEVEL ONE WEEK VIRTUAL FDP ON ADVANCES IN CIVIL ENGINEERING (ACE'20)***

National Level One Week Virtual FDP on "**Advances in Civil Engineering (ACE'20)**" was organized by the Department of Civil Engineering, Rajalakshmi Engineering College in association with Indian Concrete Institute (ICI) & Institution's Innovation Council (IIC) from 20<sup>th</sup> July 2020 to 27<sup>th</sup> July 2020. Around 120 participants from different states throughout the country had actively participated in the event and got clarified their doubts from the Experts associated with the FDP.

- Day 1 (20.07.2020): Expert talk on "**Copper Slag as replacement for Fine Aggregate in Concrete**" was delivered by Dr. T. Ch. Madhavi, Professor & Head, Department of Civil Engineering, SRM Institute of Science and technology, Ramapuram. She started her presentation with the problems faced pertaining to the demand for sand and discussed the various alternatives of sand. Copper slag considered as one of the replacement for sand, she discussed about its production and the role it played in the replacement of sand along with different tests results to justify the challenges being on the side.

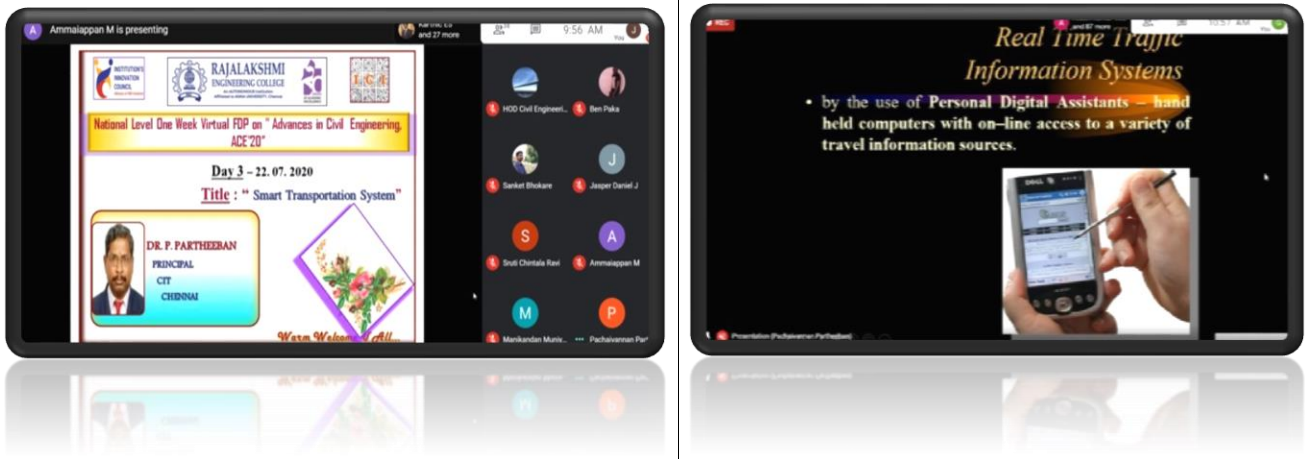


- Day 2 (21.07.2020): Expert talk on **“Marine Infrastructure & Resources – Sustainable development”** was delivered by Dr. Vijaya Ravichandran, Scientist – G, Coastal and Environmental Engineering Group, National Institute of ocean Technology, Chennai. Lecture was delivered on the topics Infrastructure in the coastal regions, Coastal discharges, Pollution issues, Impacts on marine water quality, Marine Ecology and Environment, Technologies for assessment of pollution issues, Source control and dispersion planning, Modelling and Strategies, Engineering designs for sustainable development.

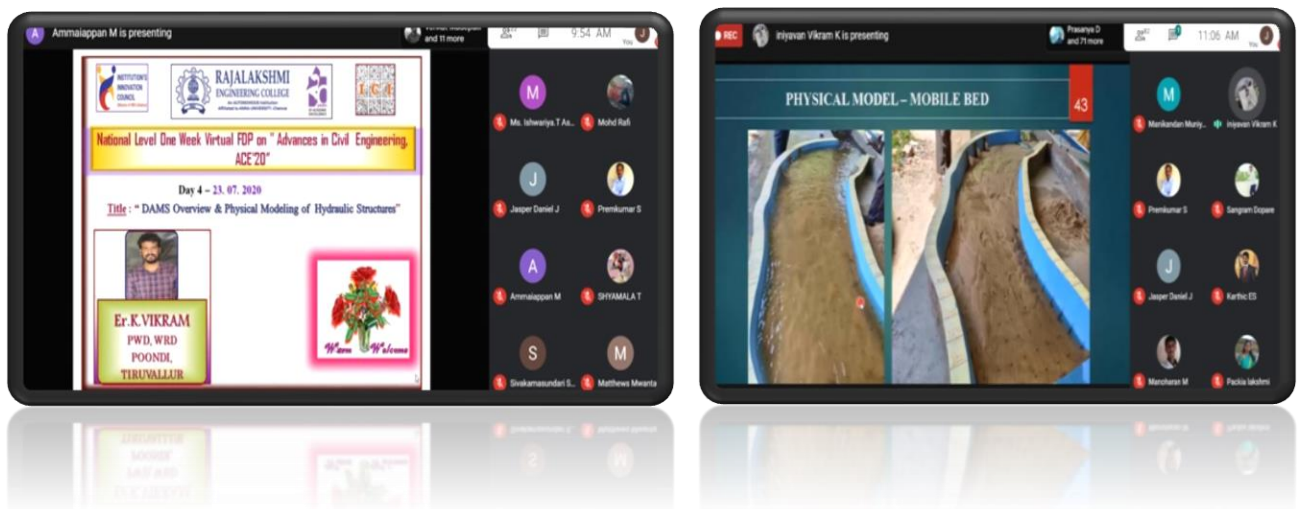


- Day 3 (22.07.2020): Expert talk was delivered on the topic **“Smart Transportation System”** by Dr. P. Partheeban, Principal, Chennai Institute of Technology, Kundrathur, Chennai. His presentation included topics like Traffic, Air pollution, Pedestrians and signal systems, Smart Transportation,

Transportation Planning, Present Transportation Problems, Advanced Transportation System, Data Acquisition, Data Communication, Data Processing, Information Distribution and Information Utilization, Driverless Cars, Real time traffic Information system, Multimodal travel management and traveller information.



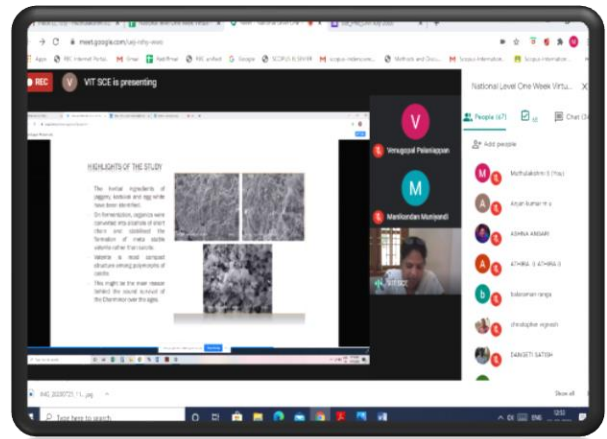
- Day 4 (23.07.2020): Expert talk on “**AMS Overview and Physical modelling of Hydraulic Structures**” was delivered by Er. K. Vikram, Assistant Engineer, PWD, WRD, Institute of Hydraulics and Hydrology, Poondi, Thiruvallur. He started his session with introduction to Dams, followed by types of Dams, types of forces acting on Dam and formulas for calculating the forces, Design considerations, construction, operation of hydraulic models, Case studies and finally ended with the topic Energy Dissipation and arrangements.



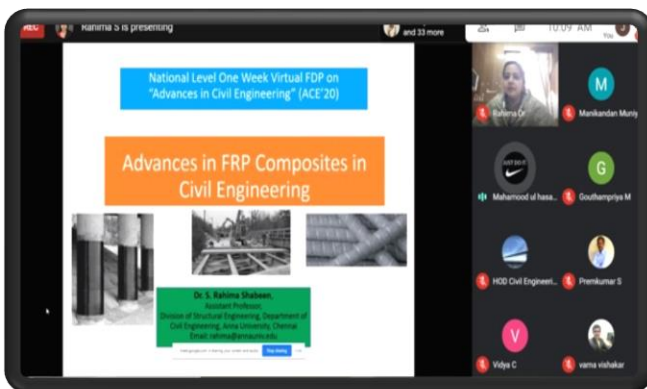
- Day 5 (24.07.2020): Expert talk was delivered on the topic **“Holistic Approach to develop an Efficient and Safe Transportation for Future India”** by Mr. Manivel M., Assistant Professor, Department of Civil Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar. His session included the topics, Importance of Transportation, Transport Problems and Issues, Need for transportation planning, Smart Transportation System, Technologies involved in Smart Transportation, IoT in Changing the Future of Transportation, Smart Traffic Management, Intelligent Transport System (ITS), Smart City Transport and Electric vehicle.



- Day 6 (25.07.2020): Expert talk on **“Characterization of Heritage Materials for Restoration”** was delivered by Dr. P. Thirumalini, Associate Professor, Department of Structural and Geotechnical Engineering, School of Civil Engineering, VIT, Vellore. She started her lecture with introduction to construction materials used in ancient Indian heritage structures such as Vadakumnathan temple (Tirussur), Padaleeswarar temple (Cuddalore), Kalyansundaresar temple (Thirunallur), Krishna Mandir (Nepal) etc. and covered the topics such as chemistry of original construction materials used in these heritage structures, development of scientific methods of restoration of heritage structures, lime mixed with natural organics such as jaggery, plant extracts from Cactus etc. and finally ended the technical talk with application of ancient eco-friendly admixtures in present day construction.



- Day 7 (27.07.2020): Expert talk was delivered on “**Advances in FRP Composites in Civil Engineering**” by Dr. S. Rahima Shabeen, Assistant Professor, Division of Structural Engineering, Department of Civil Engineering, Anna University, Chennai. She started the session with the evolution of structural materials and history of composites, then discussed about different kind of fibres along with the role of fibre and matrix. She also discussed about application of FRP, internal reinforcement, properties of rebars, FRP RC beams, FRP in bridge structures and pultruded section.





## ***OTHER ACHIEVEMENTS***

- Dr. A. Rose Enid Teresa has been awarded Course Completion Certificate for the online course on “**Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials**” conducted by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, from 13<sup>th</sup> June 2020 to 1<sup>st</sup> July 2020.
- Dr A. Rose Enid Teresa has received certification for Coordinating IIRS Outreach Programme on “**RS Applications in Agricultural Water Management**” conducted by Indian Institute of Remote Sensing (IIRS), Dehradun, from 3<sup>rd</sup> Aug’ 2020 to 7<sup>th</sup> Aug’ 2020.
- Dr. A. Rose Enid Teresa has Coordinated 67<sup>th</sup> Online course on “**Understanding of Coastal Ocean Processes using Remote Sensing and Numerical Modelling**”, an IIRS Outreach Programme conducted from 21<sup>st</sup> Sept’ 2020 to 25<sup>th</sup> Sept’ 2020.
- Mrs. S. Muthu Lakshmi has translated the files of the course **Environmental Geotechnics** (105101196) offered by IIT Bombay from English to Hindi language (4.25 hours translated).
- Mr. M. Ammaiappan has been recognized as **Registered Geotechnical Engineer (RGTE)** with Chennai Metropolitan Development Authority (CMDA), Egmore.
- Mr. M. Ammaiappan appeared in online exam conducted by ASSOCHAM National Engineering Olympiad’20 and has been awarded Exemplary performance for scoring 91%.

## ***FACULTY PARTICIPATION IN ONLINE WEBINAR / FDP / QUIZ / WORKSHOP***

<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>Course Title</b>	<b>Organized by</b>	<b>Event</b>	<b>Date</b>
<b>JULY 2020</b>					
1.	Dr. M. Selvakumar	Geo-Environmental Engineering	Sri Ramakrishna Engineering College	Webinar	29.6.2020 to 3.7.2020
2.		High Performance Materials for Energy, Environment and Healthcare in the digital Era	VIT, Vellore	International Virtual Conference	30.6.2020 to 1.7.2020
3.		Smart Cities for Sustainable Development	Sri Ramakrishna Engineering College, Coimbatore	Webinar	1.7.2020
4.		Recent Advances in Geotechnical Engineering - Research & Practice	IIT Patna	International webinar	1.7.2020 to 10.7.2020
5.		Innovation and Intellectual Property Rights Filing	NIT Jalandhar	National workshop	1.7.2020
6.		IPR and Patents	HRIT, Lucknow	Webinar	2.7.2020
7.		Future of construction technology and Green Buildings	CMR Institute of Technology, Bangalore	Faculty Development Program	2.7.2020 to 4.7.2020
8.		Recent Trends in Concrete Technology and Environmental Engineering	Hindustan College of Engineering & Technology, Coimbatore	Faculty Development Program	2.7.2020 to 4.7.2020
9.		Façade Structures	Sri Ramakrishna Engineering College	Webinar	3.7.2020
10.		Research Techniques and Tips for Article Writing	VJIT - Hyderabad	Webinar	3.7.2020
11.		Advanced Post Tensioning System for Building Construction	Chandubhai S Patel Institute of Technology, Gujarat	Webinar	4.7.2020
12.		Use of Micro materials in Concrete	Qcrete	Webinar	4.7.2020
13.		Soil Structure Interaction and Deep Foundations: Theory and Applications	St. Joseph's Engineering College, Mangaluru	Webinar	7.7.2020
14.		Precast Construction	Tech Launchpad	Webinar	7.7.2020
15.		Urban Hydrology	MIT, Aurangabad	Webinar	8.7.2020

16.		Skill Enhancement in Civil Engineering Laboratories	BMS Institute of Technology & Mgt	3 Days SDP	8.7.2020 to 10.7.2020
17.		Structural Analysis	Pillai HOC College of Engineering & Technology, Mumbai	FDP	9.7.2020 to 12.7.2020
18.		Wastewater Reuse- Policies & Challenges	Amrita College of Engineering and Technology	Webinar	10.7.2020
19.		Infrastructure for Rural Development	HRIT group of Institutions, Lucknow	Webinar	11.7.2020
20.		Micro-structure Analysis on Cement Paste using SEM	SRMIST	Webinar	11.7.2020
21.		Effective Use of Concrete in RCC Structures	QCrete Readymix India Pvt Ltd	Webinar	11.7.2020
22.		Innovation in Civil Engineering and Concrete Structures	SRMIST	FDP	13.7.2020 to 17.7.2020
23.		Geotechnical Engineering - Theory & Practice	Kumaraguru College of Technology	One week Webinar series	13.7.2020 to 20.7.2020
24.		Bridge Engineering: Design, Execution, Maintenance & Rehabilitation	Sinhgad College of Engineering, Pune	One week STTP	13.7.2020 to 18.7.2020
25.		Art of making good concrete	Tech Launchpad	Webinar	14.7.2020
26.		Advanced Strategies and Approaches in Civil and Environmental Engineering	Hindustan College of Engineering and Technology	FDP	14.7.2020 to 19.7.2020
27.		Advances in Geotechnical Engineering	Bheemanna Khandre Institute of Technology, Bhalki	FDP	15.7.2020 to 20.7.2020
28.		Insights into Modern Technologies in Construction methods and Concrete	Adhi College of Engineering and Technology	FDP	16.7.2020 to 18.7.2020
29.		Writing a Research Proposal	St Joseph Engineering College, Mangalore.	Webinar	17.7.2020
30.	Dr. S. Geetha	Smart Cities for Sustainable Development	Sri Ramakrishna Engineering College, Coimbatore	Webinar	1.7.2020
31.		Recent Advances in Geotechnical Engineering - Research & Practice	IIT Patna	International webinar	1.7.2020 to 10.7.2020
32.		Innovation and Intellectual Property Rights Filing	NIT Jalandhar	National workshop	1.7.2020
33.		IPR and Patents	HRIT, Lucknow	Webinar	2.7.2020

34.	Future of construction technology and Green Buildings	CMR Institute of Technology, Bangalore	Faculty Development Program	2.7.2020 to 4.7.2020
35.	Recent Trends in Concrete Technology and Environmental Engineering	Hindustan College of Engineering & Technology, Coimbatore	Faculty Development Program	2.7.2020 to 4.7.2020
36.	Façade Structures	Sri Ramakrishna Engineering College	Webinar	3.7.2020
37.	Research Techniques and Tips for Article Writing	VJIT - Hyderabad	Webinar	3.7.2020
38.	Advanced Post Tensioning System for Building Construction	Chandubhai S Patel Institute of Technology, Gujarat	Webinar	4.7.2020
39.	Use of Micro materials in Concrete	Qcrete	Webinar	4.7.2020
40.	Soil Structure Interaction and Deep Foundations: Theory and Applications	St.Joseph's Engineering College, Mangaluru	Webinar	7.7.2020
41.	Precast Construction	Tech Launchpad	Webinar	7.7.2020
42.	Urban Hydrology	MIT, Aurangabad	Webinar	8.7.2020
43.	Skill Enhancement in Civil Engineering Laboratories	BMS Institute of Technology and Management	3 Days SDP	8.7.2020 to 10.7.2020
44.	Civil Engineering Technical-Staff Development Program on Skill Enhancement in Civil Engineering Laboratories	BMS Institute of Technology and Management	FDP	8.7.2020 to 10.7.2020
45.	Structural Analysis	Pillai HOC College of Engineering & Technology, Mumbai	FDP	9.7.2020 to 12.7.2020
46.	Wastewater Reuse- Policies & Challenges	Amrita College of Engineering and Technology	Webinar	10.7.2020
47.	Infrastructure for Rural Development	HRIT group of Institutions, Lucknow	Webinar	11.7.2020
48.	Sustainable Environment - An Engineering Perspective (SEEP: 2020)	Assam Engineering College Jalukbari Guwahati	FDP	13.7.2020 to 20.7.2020
49.	Geotechnical Engineering - Theory & Practice	Kumaraguru college of Technology	One week Webinar series	13.7.2020 to 18.7.2020

50.		Bridge Engineering: Design, Execution, Maintenance & Rehabilitation	Sinhgad College of Engineering, Pune	One week STTP	13.7.2020 to 18.7.2020
51.		Art of making good concrete	Tech Launcpad	Webinar	14.7.2020
52.		Sustainability Aspects and Recent Trends in Civil Engineering-The Future Scenario	BMS Institute of Technology and Management, Bengaluru	FDP	20.7.2020 to 24.7.2020
53.		Writing a Research Proposal	St Joseph Engineering College, Mangalore.	Webinar	17.7.2020
54.		Waste Management & its Impact on the Environment	G.H.Raisoni College of Engineering. Nagpur	One week FDP	20.7.2020 to 25.7.2020
55.		Research Opportunities in Environmental Engineering	B. V. D. U. College of Engineering, Pune	One week FDP	20.7.2020 to 25.7.2020
56.		Wind and Earthquake Resistant Design	Prof. Ram Meghe Institute of Technology and Research, Badnera	AICTE STTP	20.7.2020 to 24.7.2020
57.	Dr. M. Uma Maguesvari	Advances in Technology and Management for Civil Engineering	K. D. K. College of Engineering, Nagpur	STTP	23.6.2020 to 3.7.2020
58.		“Natural fibre reinforced composites”	REC	Webinar	2.7.2020
59.		Implementation of safety in construction practices	REC	Webinar	3.7.2020
60.		Advancement and Opportunities in Revit Structures & Revit MEP - Design Tools	SRM Easwari	Webinar	6.7.2020 & 7.7.2020
61.		Sustainable Building Materials and Products for Green Buildings	SRM Easwari	Webinar	8.7.2020
62.		Application of Remote Sensing and GIS in Civil Engineering	Silicon Institute of Technology	FDP	7.7.2020 to 10.7.2020
63.		Construction Management and Its Opportunities	Kumaraguru College of Technology	Industry Institution Interaction	4.7.2020 to 10.7.2020
64.		Water Resource Applications	SRM Easwari	Workshop	10.7.2020 to 11.7.2020
65.		Nanomaterial Synthesis, Process, Characterization and its Functional Applications	HCET	FDP	6.7.2020 to 11.7.2020

66.		Applications of GIS in Civil Engineering	Kumaraguru College of Technology	Webinar	11.7.2020
67.		Drone Survey	KPRIET	Webinar	12.7.2020
68.		VasthuSashtra”	KPRIET	Webinar	13.7.2020
69.		A Five Day Faculty Development Programme	PaavaiEngg College	FDP	14.7.2020 to 18.7.2020
70.		The Helmet is Soft! Breaking the Industrial Stigma	Kumaraguru College of Technology	Webinar	19.7.2020
71.		Structural and Geotechnical Advances in Civil Engineering	ATME	Webinar	20.7.2020 to 21.7.2020
72.		Recent Trends in Construction Materials and Technology	GCT CBE	FDP	20.7.2020 to 24.7.2020
73.		Introduction to green Homes	SVCE	Webinar	24.7.2020
74.		Design for Lateral Forces - Wind	KPRIET	Webinar	25.7.2020
75.		Emerging Trends in Transportation Engineering	Kumaraguru College of Technology	STTP	21.7.2020 to 26.7.2020
76.		Advances in Civil Engineering	REC	FDP	20.7.2020 to 27.7.2020
77.		ABC of Constructions	K. D. K. College of Engineering, Nagpur	Webinar	28.7.2020
78.		Newness in Environmental Engineering	Kumaraguru College of Technology	STTP	27.7.2020 to 31.7.2020
79.		Intellectual Property Rights and Effective Patent Drafting	Kumaraguru College of Technology	STTP	27.7.2020 to 31.7.2020
80.	Mrs. S. Muthu Lakshmi	Future of Teaching	FutureCaptains	Webinar	05.7.2020
81.		Coal, Steel & Mines	ASSOCHAM	Webinar	13.7.2020
82.		Importance of Architectural Lighting in Creating a Surreal Experience	ASSOCHAM	Webinar	15.7.2020
83.		Renewable Sources of Energy	Mohamed Sathak AJ College of Engineering	Webinar	11.7.2020
84.		Natural fibre reinforced composites	REC	Webinar	02.7.2020
85.		Advances in Civil Engineering	REC	National level One Week Virtual FDP	20.7.2020 to 27.7.2020

86.		Research workflows, Research Metrics & Excellence in Academics	AICTE & Elsevier	Webinar	15.7.2020
87.		E-readiness of Higher Education Institutions in the New Normal	REC	Webinar	18.7.2020
88.		Advanced Materials Behaviour and Characterization (ICAMBC_2020)	Mattest Research Academy	International Conference	18.7.2020 to 23.7.2020
89.		Guided Walkthrough to NBA – SAR	REC	AICTE MARGDARS HAN – FDP	27.7.2020 to 01.8.2020
90.	Mr. N. Mahamood Ul Hasan	Emerging Trends In Civil Engineering	SRM Easwari Engineering College	Webinar	30.6.2020 to 02.7.2020
91.		Pre-Engineered Metal Buildings	SRM Easwari Engineering College	Webinar	04.7.2020
92.		Innovation in Civil Engineering & Concrete Technology	Indian Concrete Institute, SRM Institute of Science & Technology	FDP	13.7.2020 to 17.7.2020
93.		Sustainable Buildings and Future Technologies	CSIR CBRI	Webinar series	13.7.2020 to 17.7.2020
94.		Building analysis and design using ETABS	SRM Institute of Science & Technology	Webinar	14.7.2020
95.	Mrs. M. Gouthampriya	Implementation Of Safety In Construction Practices	REC	Webinar	03.7.2020
96.		Pre-Engineered Metal Buildings	Easwari Engineering College	Webinar	05.7.2020
97.		ICT Academy Convergence – Annual Members meet -2020	ICT Academy	Webinar	15.7.2020
98.		National Level One Week Virtual FDP On "Advances In Civil Engineering".	REC	FDP	20.7.2020 to 27.7.2020
99.	Mr. M. Ammaippan	Recent Advances in Geotechnical Engineering - Research & Practice	IIT Patna	International webinar	1.7.2020 to 10.7.2020
100.		A Marvel Engineering in Concrete	KPR IEAT	Webinar	17.6.2020
101.		Strength of Materials (96%)	Mother Teresa IST	Quiz	02.7.2020
102.		Water Resources Engineering (100%)	RISE Krishna Sai Gandhi Institutions	Quiz	02.7.2020
103.		Implementation of Safety In Construction Practices	REC, Chennai	Webinar	03.7.2020

104.		Concrete Technology (100%)	Mahaveer IST	Quiz	06.7.2020
105.		Advanced Trends in Civil Engineering	Tagore Engineering College	FDP	6.7.2020 to 8.7.2020
106.		Geo polymer Concrete	SRM IST	Quiz	09.7.2020
107.		Structural Analysis	RISE Krishna Sai Gandhi Institutions	Quiz	02.7.2020
108.		Applications of GIS in Civil Engineering	Kumaraguru College of Technology	Webinar	11.7.2020
109.		Concrete Technology	Mother Teresa IST	Quiz	11.7.2020
110.		Geotechnical Engineering - Theory & Practice	Kumaraguru college of Technology	One week Webinar series	13.7.2020 to 20.7.2020
111.		Sustainable Water Resources Management	Karpaga Vinayaga Engg & Tech.	FDP	14.7.2020 to 16.7.2020
112.		Recent Trends in Construction Materials and Technology	GCT CBE	FDP	20.7.2020 to 24.7.2020
113.		Advances in Civil Engineering	REC	FDP	20.7.2020 to 27.7.2020
114.		Industrial & Municipal Solid Waste Mgt for Green India.	PSR Engg.College	STTP	20.7.2020 to 25.7.2020
115.		Strength of Materials	Govt.Poly Tech.	Quiz	21.7.2020
116.		Sustainable Concepts in Civil Engineering and architecture	Ramaiah Institute of Technology	FDP	21.7.2020 to 25.7.2020
117.		Seismic Hazards and Mitigation	ITM Group,M.P	Webinar	23.7.2020 to 25.7.2020
118.		Introduction to Green Homes	SVCE	Webinar	24.7.2020
119.		Geotechnical and Terra Mechanics Perspective	Meenakshi Sundarrajan Engg.College	Webinar	25.7.2020
120.		Geotechnical and Terra Mechanics Perspective	Meenakshi Sundarrajan Engg.College	Quiz	25.7.2020
121.		Intellectual Property Rights and Effective Patent Drafting	Kumaraguru College of Technology	STTP	27.7.2020 to 31.7.2020
122.		Concrete Technology	Eswari Engg. College	Quiz	28.7.2020
123.	Mr. J. Jasper Daniel	Implementation of Safety in Construction Practices	REC	Webinar	03.7.2020
124.		IoT applications in Construction Industry	Saveetha School of Engineering	Technical Webinar	04.7.2020



125.		ICT ACADEMY CONVERGENCE 2020	ICT ACADEMY	Technical Webinar	15.7.2020
126.		Building Information Modelling	Aalim Muhammed Salegh College of Engineering	Online Live Demo	20.7.2020
127.		Advances in Civil Engineering (ACE'20)	REC	Virtual FDP	20.7.2020 to 27.7.2020
128.		" EMERGING TECHNOLOGIES ON BIM"	REC	Software webinar	29.7.2020
129.	Mrs. A. J. Jeya Arhi	"Implementation Of Safety In Construction Practices"	REC	Webinar	03.7.2020
130.		"Pre-Engineered Metal Buildings "	Easwari Engineering College	Webinar	05.7.2020
131.		ICT Academy Convergence – Annual Members meet -2020	ICT Academy	Webinar	15.7.2020
132.		National Level One Week Virtual FDP On "Advances In Civil Engineering"	REC	FDP	20.7.2020 to 27.7.2020
133.	Mr. M. Manoharan	Aqua and Terra Sensor Applications in Environmental Engineering	Saveetha School of Engineering	Technical Webinar	30.6.2020
134.		Advanced E-learning in Structural Engineering Design Concepts	Hindusthan College of Engineering and Technology	FDP	29.6.2020 to 01.7.2020
135.		Recent Trends in Concrete Technology and Environmental Engineering	Hindusthan College of Engineering and Technology	FDP	02.7.2020 to 04.7.2020
136.		Implementation of Safety in Construction Practices	REC	Webinar	03.7.2020
137.		IoT applications in Construction Industry	Saveetha School of Engineering	Technical Webinar	04.7.2020
138.		Building Information Modelling	Aalim Muhammed Salegh College of Engineering	Online Live Demo	20.7.2020
139.		Advances in Civil Engineering (ACE'20)	REC	Virtual FDP	20.7.2020 to 27.7.2020
140.	Mrs. M. Hemavathy	"Implementation Of Safety In Construction Practices"	REC	Webinar	03.7.2020
141.		ICT Academy Convergence – Annual Members meet -2020	ICT Academy	Webinar	15.7.2020
142.		National Level One Week Virtual FDP On "Advances In Civil Engineering"	REC	FDP	20.7.2020 to 27.7.2020
143.		Role of Academic Institutions in Road Safety	Indian Road Safety Campaign	Webinar	05.6.2020

144.		Urban Frameworks for Indian Cities	Adithya Institute of Technology	Webinar	22.7.2020
145.	Mr. E. S. Karthic	Implementation of Safety in Construction Practices	REC	Webinar	03.7.2020
146.		Building Information Modelling	Aalim Muhammed Salegh College of Engineering	Online Live Demo	20.7.2020
147.		Advances in Civil Engineering (ACE'20)	REC	National Level One Week Virtual FDP	20.7.2020 to 27.7.2020
148.	Mrs. V. J. Vedhanayaghi	Implementation of Safety in Construction Practices	REC	Webinar	03.7.2020
149.		Recent Trends in Concrete Technology and Environmental Engineering	Hindusthan College of Engineering and Technology, Coimbatore	FDP	02.7.2020 to 04.7.2020
150.		Advances in Technology and Management for Civil Engineering - (ATMCE)	KDKCE, Nagpur	STTP	23.6.2020 to 03.7.2020
151.		Procurement Management	SSN College of Engineering	Webinar	05.7.2020
152.		Certificate Course on Digital Teaching Techniques	ICT Academy	Certified course	29.6.2020 to 04.7.2020
153.		Online Technical Quiz on IS:456-2000 Indian Standard Plain and Reinforced Concrete - Code of Practice	Sri Venkateshwara College of Engineering, Bengaluru	Quiz	03.7.2020 to 04.7.2020
154.		E-Quiz on Steel Structures	AMACE	Quiz	02.7.2020 to 04.7.2020
155.		Advanced Trends in Civil Engineering	Tagore Engineering College	FDP	06.7.2020 to 08.7.2020
156.		The Pains and Remedial Measures of Concrete Structures	SMK Fomra Institute of Technology	Webinar	06.7.2020
157.		E-Quiz on Soil Mechanics and Foundation Engineering	Meenakshi College of Engineering	Quiz	09.7.2020 to 11.7.2020
158.		The Basics of Pump	Easwari Engineering College	Webinar	09.7.2020
159.		E-Quiz on Fundamentals of Civil Engineering	Adhiparasakthi College of Engineering, Kalavai	Quiz	06.7.2020 to 08.7.2020
160.		Two days National Workshop on Water Resources Applications	Easwari Engineering College	Workshop	10.7.2020 & 11.7.2020

161.		Green Building: An Overview	Buddha Institute of Technology, Gorakhpur, UP	Webinar	13.7.2020
162.		Building Analysis and Design by ETABS	Easwari Engineering College	Webinar	14.7.2020
163.		ICT Academy Convergence 2020 (Annual Members Meeting)	ICT Academy	Webinar	15.7.2020
164.		The Impact of Drones in Construction Industry	PET Engineering College, Tirunelveli	Webinar	17.7.2020
165.		Five Days Faculty Development Programme on Academic Enhancement Through Quality Research	B.S. Anangpuria Institute of Technology and Management, Faridabad	FDP	15.7.2020 to 19.7.2020
166.		Advances in Civil Engineering (ACE'20)	REC	Virtual FDP	20.7.2020 to 27.7.2020
167.		Building Information Modelling	Aalim Muhammed Salegh College of Engineering	Webinar	20.7.2020
168.		Marine Infrastructure & Resources – Sustainable Development	REC	Webinar	21.7.2020
169.		Emerging Trends in Infrastructure Projects (ETIP – 2020)	Kakatiya Institute of Technology and Science, Warangal	FDP	20.7.2020 to 24.7.2020
170.	Mrs. S. Yugasini	Emerging trending in Civil Engineering	Easwari Engg Clg	Webinar	30.6.2020 to 02.7.2020
171.		Implementation of safety in construction practices	REC	Webinar	03.7.2020
172.		Construction management and its opportunities	KCT	FDP	04.7.2020 to 10.7.2020
173.		Enhancing quality culture in technical institutes through online teaching for outcome based teaching	AISSMS Clg of Engg	Webinar	05.7.2020
174.		Application of remote sensing and GIS in civil engineering	Silicon institute of technology	FDP	07.7.2020 to 10.7.2020
175.		Waste water reuse-policies and challenges	Amirtha CET	Webinar	10.7.2020
176.		Ecowarrior	PERI	Quiz	10.7.2020
177.		Application of NDT test, Repair & Rehabilitation of bridges	EGS PEC	Webinar	11.7.2020

178.		Geotechnical engineering – theory & practices	KCT	Webinar series	13.7.2020 to 20.7.2020
179.		Research areas in civil engineering	Paavai Engg clg	FDP	14.7.2020 to 18.7.2020
180.		Building analysis & design by ETABS	Easwari Engg Clg	Webinar	14.7.2020
181.		Application of BIM in residential buildings	CAHCET	Webinar	15.7.2020
182.		Advances in Civil Engineering	REC	FDP	20.7.2020 to 27.7.2020
183.		Recent trends in Construction Materials & Technologies	GCT , Coimbatore	FDP	20.7.2020 to 24.7.2020
184.		Contract Law	EGS PEC	Webinar	25.7.2020
185.	Mr. P. Muthaiyan	Advances in Technology and Management for Civil Engineering	K. D. K. College of Engineering, Nagpur	STTP	23.6.2020 to 3.7.2020
186.		Advanced Trends in Civil Engineering	Tagore Engineering College	FDP	6.7.2020 to 8.7.2020
187.		Sustainable Building Materials and Products for Green Buildings	SRM Easwari	Webinar	8.7.2020
188.		Application of Remote Sensing and GIS in Civil Engineering	Silicon Institute of Technology	FDP	7.7.2020 to 10.7.2020
189.		Construction Management and Its Opportunities	Kumaraguru College of Technology	Industry Institution Interaction	4.7.2020 to 10.7.2020
190.		Water Resource Applications	SRM Easwari Engineering College	Workshop	10.7.2020 to 11.7.2020
191.		Nanomaterial Synthesis, Process, Characterization and its Functional Applications	HCET	FDP	6.7.2020 to 11.7.2020
192.		Applications of GIS in Civil Engineering	Kumaraguru College of Technology	Webinar	11.7.2020
193.		Drone Survey	KPRIET	Webinar	12.7.2020
194.		Sustainable Water Resource Management	Karpaga Vinayaga	FDP	14.7.2020 to 16.7.2020
195.		A Five Day Faculty Development Programme	Paavai Engg College	FDP	14.7.2020 to 18.7.2020

196.		Structural and Geotechnical Advances in Civil Engineering	ATME	Webinar	20.7.2020 to 21.7.2020
197.		Recent Trends in Construction Materials and Technology	GCT CBE	FDP	20.7.2020 to 24.7.2020
198.		Virtual Facilitation Skills	TCS -REC	FDP	25.7.2020
199.		Design for Lateral Forces - Wind	KPRIET	Webinar	25.7.2020
200.		Emerging Trends in Transportation Engineering	Kumaraguru College of Technology	STTP	21.7.2020 to 26.7.2020
201.		Advances in Civil Engineering	REC	FDP	20.7.2020 to 27.7.2020
202.		ABC of Constructions	K. D. K. College of Engineering, Nagpur	Webinar	28.7.2020
203.		Modelling of Geotechnical Construction Processes on the Centrifuge: a Few Examples	K. D. K. College of Engineering, Nagpur	Webinar	29.7.2020
204.		Newness in Environmental Engineering	Kumaraguru College of Technology	STTP	27.7.2020 to 31.7.2020
205.		Intellectual Property Rights and Effective Patent Drafting	Kumaraguru College of Technology	STTP	27.7.2020 to 31.7.2020
206.		Mr. C. Vidya	Emerging Trends in Civil Engineering	Easwari Engineering College	Webinar
207.	Natural fibre Reinforced Composites		REC	Webinar	02.7.2020
208.	Implementation of Safety In Construction Practices		REC	Webinar	03.7.2020
209.	IoT Applications in Construction Industry		Saveetha School Of Engineering	Webinar	04.7.2020
210.	Future Of Teaching		Omega International School	Webinar	05.7.2020
211.	Advances in Civil Engineering		REC	FDP	20.7.2020 to 27.7.2020

### AUGUST 2020

1.	Dr. M. Selvakumar	Sustainable Green city using Geoinformatics	Vidhyavardhaka College of Engineering, Mysuru	Webinar	03.8.2020
2.		Energy Geostructures and Sustainable geotechnical Engineering Practice	Vidhyavardhaka College of	Webinar	05.8.2020

			Engineering, Mysuru		
3.		Structural Health Monitoring and seismic protection of structures and infrastructural systems – Phase-II	Bannari Amman Institute of Technology	AICTE One week STTP	03.8.2020 to 08.8.2020
4.		Disaster Management Mitigation and Response	Assam Engineering College, Guwahati	One week FDP	10.8.2020 to 14.8.2020
5.		Urban Noise Pollution: Sources, impact measurement and control	Vidhyavardhaka College of Engineering, Mysuru	Webinar	07.8.2020
6.		Our experiences with Flyash	Concrete Redymix (India) Pvt Ltd	Webinar	10.8.2020
7.	Dr. A. Rose Enid Teresa	3 Days FDP on Recycling of Construction Demolition Waste	SRM, Ramapuram	FDP	05.8.2020 to 07.8.2020
8.		The Transformation Needed from a 2G Civil Engineer to a 5G Civil Engineer	REC	Webinar	08.8.2020
9.		Author's Conclave	SRM, Ramapuram	FDP	11.8.2020 to 17.8.2020
10.		"Recent Advances in Pavement Material Testing and Design"	MNMJEC	STTP	17.8.2020 to 22.8.2020
11.		Recent Advances in Materials & Technology - A Futuristic Perspective	REC	Webinar	19.8.2020
12.		Air Pollution - Effects and Mitigation strategies	REC	Webinar	29.8.2020
13.	Dr. S. Geetha	Sustainable Green city using Geoinformatics	Vidhyavardhaka College of Engineering, Mysuru	Webinar	03.8.2020
14.		Energy Geotechnical Structures and Sustainable geotechnical Engineering Practice	Vidhyavardhaka College of Engineering, Mysuru	Webinar	05.8.2020
15.		Structural Health Monitoring and seismic protection of structures and infrastructural systems – Phase-II	Bannari Amman Institute of Technology	AICTE One week STTP	03.8.2020 to 08.8.2020
16.		Disaster Management Mitigation and Response	Assam Engineering College, Guwahati	One week FDP	10.8.2020 to 14.8.2020
17.		Urban Noise Pollution: Sources, impact measurement and control	Vidhyavardhaka College of Engineering, Mysuru	Webinar	07.8.2020

18.		Our experiences with Flyash	Qcrete Redymix (India) Pvt Ltd	Webinar	10.8.2020
19.	Dr. M. Uma Magesvari	Bridges - Behaviour and Performance Assessment	REC	Webinar	01.8.2020
20.		Innovative Technologies and Practices in Construction Industries	Kumaraguru College of Technology	STTP	03.8.2020 to 09.8.2020
21.		The Transformation Needed from a 2G Civil Engineer to a 5G Civil Engineer	REC	Webinar	08.8.2020
22.		Author's Conclave	SRM, Ramapuram	FDP	11.8.2020 to 17.8.2020
23.		"Recent Advances in Pavement Material Testing and Design"	MNMJEC	STTP	17.8.2020 to 22.8.2020
24.		Recent Advances in Materials & Technology - A Futuristic Perspective	REC	Webinar	19.8.2020
25.		PALS-VLAB	NITK and PALS	FDP	24.8.2020 to 28.8.2020
26.		Air Pollution - Effects and Mitigation strategies	REC	Webinar	29.8.2020
27.		Mrs. S. Muthu Lakshmi	Bridges – Behavior and Performance Assessment	REC	Technical Webinar
28.	Engineering Youth Leadership		REC	Alumini Webinar	08.8.2020
29.	Transformation needed from a 2G Civil Engineer to a 5G Civil Engineer		REC	Expert Webinar Talk	08.8.2020
30.	Recent Advances in Materials & Technology – A Futuristic Perspective		REC	Expert Webinar Series	19.8.2020
31.	Air Pollution – Effects and Mitigation Strategies		REC	Expert Webinar Series	29.8.2020
32.	Mrs. M. Goutham Priya	Bridges-Behaviour & Performance Assessment	REC	Webinar	01.8.2020
33.		Transformation Needed from a 2G Civil Engineer to a 5G Civil Engineer	REC	Webinar	08.8.2020
34.		Engineering in Youth Leadership	REC	Webinar	08.8.2020
35.		Recent Advances in Materials & Technology-A Futuristic Perspective	REC	Webinar	19.8.2020
36.		Air Pollution-Effects & Mitigation Strategies	REC	Webinar	29.8.2020

37.	Mr. M. Ammaiappan	Geotechnical Engineering for Infrastructural Development	Thejus Engineering College	Webinar	01.8.2020
38.		“Bridges - Behaviour and Performance Assessment”	REC	Webinar	01.8.2020
39.		Leadership in Construction	Kumaraguru College of Technology	Webinar	01.8.2020
40.		Innovative Technologies and Practices in Construction Industries	Kumaraguru College of Technology	STTP	03.8.2020 to 09.8.2020
41.		The Transformation Needed from a 2G Civil Engineer to 5G Civil Engineer	REC	Webinar	08.8.2020
42.		Modern Construction project management tools	SVCE	Entrepreneurship Development Program	19.8.2020 to 24.8.2020
43.		AIR POLLUTION - Effects and Mitigation strategies	REC	Webinar	29.8.2020
44.		Innovation Led Entrepreneurship- The Way Forward	PALS CARES & SHARES	Web Series VI	29.8.2020
45.	Mr. J. Jasper Daniel	Bridges – Behaviour and Performance Assessment	REC	Technical Webinar	01.8.2020
46.		Smart and Sustainable Materials in Construction	Sri Venkateswara Institute of Science and Technology, Kadapa	Faculty Development Program	04.8.2020 to 08.8.2020
47.		Transformation needed from a 2G Civil Engineer to a 5G Civil Engineer	REC	Technical Webinar	08.8.2020
48.		Practical Aspects and Research Opportunities in Concrete Structures	Vignana Bharathi Institute of Technology	Two Day Workshop	10.8.2020 & 11.8.2020
49.		Recent Advances in Materials & Technology – A Futuristic Perspective	REC	Technical Webinar	19.8.2020
50.		Innovation Led Entrepreneurship- The Way Forward	PALS CARES & SHARES	Web Series VI	29.8.2020
51.	Mr. M. Manoharan	Bridges – Behaviour and Performance Assessment	REC	Technical Webinar	01.8.2020
52.		Smart and Sustainable Materials in Construction	Sri Venkateswara Institute of Science and Technology, Kadapa	Faculty Development Program	04.8.2020 to 08.8.2020



53.		Transformation needed from a 2G Civil Engineer to a 5G Civil Engineer	REC	Technical Webinar	08.8.2020	
54.		Practical Aspects and Research Opportunities in Concrete Structures	Vignana Bharathi Institute of Technology	Two Day Workshop	10.8.2020 & 11.8.2020	
55.		Recent Advances in Pavement Material Testing and Design	M.N.M. Jain Engineering College	6 days STTP	17.8.2020 to 22.8.2020	
56.		Recent Advances in Materials & Technology – A Futuristic Perspective	REC	Technical Webinar	19.8.2020	
57.		Innovation Led Entrepreneurship- The Way Forward	PALS CARES & SHARES	Web Series VI	29.8.2020	
58.		Bridges-Behaviour & Performance Assessment	REC	Webinar	01.8.2020	
59.		Transformation Needed from a 2G Civil Engineer to a 5G Civil Engineer	REC	Webinar	08.8.2020	
60.	Mrs. A. J. Jeya Arthi	Engineering in Youth Leadership	REC	Webinar	08.8.2020	
61.		Recent Advances in Materials & Technology-A Futuristic Perspective	REC	Webinar	19.8.2020	
62.		Air Pollution-Effects & Mitigation Strategies	REC	Webinar	29.8.2020	
63.		Mr. E. S. Karthic	Geotechnical Engineering for Infrastructural Development	Thejus Engineering College	Webinar	01.8.2020
64.			“Bridges - Behaviour and Performance Assessment”	REC	Webinar	01.8.2020
65.	Innovative Technologies and Practices in Construction Industries		Kumaraguru College of Technology	STTP	03.8.2020 to 09.8.2020	
66.	The Transformation Needed from a 2G Civil Engineer to 5G Civil Engineer		REC	Webinar	08.8.2020	
67.	Air Pollution - Effects and Mitigation strategies		REC	Webinar	29.8.2020	
68.		Bridges – Behaviour and Performance Assessment	REC	Webinar	01.8.2020	
69.	Mrs. V. J. Vedhanayaghi	Five Day FDP on “Smart and Sustainable Materials in Construction”	Sri Venkateswara Institute of Science and Technology, Kadappa	FDP	04.8.2020 to 08.8.2020	
70.		Online International FDP on “Recent Trends in Civil Engineering”	St. Thomas College of Engineering & Technology, Kerala	International FDP	05.8.2020 to 07.8.2020	

71.		The Transformation Needed from 2G Civil Engineer to 5G Civil Engineer	REC	Webinar	08.8.2020
72.		Indo Australian Workshop on “Construction Projects Management with Innovative Tools and Techniques”	SRM Institute of Science & Technology, Ramapuram	Webinar	10.8.2020
73.		Underground Metro Rail Structures – Bored Tunnels and Stations	Sri Venkateswara College of Engineering	Webinar	10.8.2020
74.		Workshop on Practical Aspects and Research Opportunities in Concrete Structures	Vignana Bharathi Institute of Technology, Hyderabad	Webinar	10.8.2020 to 11.8.2020
75.		A road map for higher education in abroad with funding opportunities	Vishnu Institute of Technology, AP	Webinar	18.8.2020
76.		Recent Advances in Materials & Technology – A Futuristic Perspective	REC	Webinar	19.8.2020
77.		6 days STTP on “Recent Advances in Pavement Material Testing and Design”	MNM Jain Engineering College	FDP (AICTE Sponsored)	17.8.2020 to 22.8.2020
78.		AIR POLLUTION – Effects and Mitigation strategies	REC	Webinar	29.08.2020
79.		Spit Free India Movement to prevent the spread of COVID - 19	Alamelu Charitable Foundations Sponsored by Tata Trusts	Quiz	Jun-Aug 2020
80.		Three Days International FDP on “Smart Solutions in Civil Engineering”	SRM Institute of Science and Technology	International FDP	21.7.2020 to 23.7.2020
81.	Mr. R. Madhavaperumal	“Bridges - Behaviour and Performance Assessment”	REC	Webinar	01.8.2020
82.		The Transformation Needed from a 2G Civil Engineer to 5G Civil Engineer	REC	Webinar	01.8.2020
83.		Air Pollution - Effects and Mitigation strategies	REC	Webinar	29.8.2020
84.		Recent advances in Materials and Technology – A futuristic perspective	REC	Webinar	19.8.2020
85.		Practical Aspects and Research opportunities in concrete structures	Vignana Bharathi Institute of Technology	Workshop	10.8.2020 to 11.8.2020
86.		Smart and Sustainable material in construction	Sri Venkateshwara Institute of Technology	FDP	04.8.2020 to 08.8.2020
87.		Technology Driven Construction methods and buildings	Sri Venkateshwara college of Engineering	Webinar	14.8.2020 to 16.8.2020

88.		Recycling of Construction and Demolition waste	SRM Institute of Science and Technology	FDP	05.8.2020 to 07.8.2020
89.		Recent Advancements in Pavement material testing and design	MNM Jain Engineering College	STTP	17.8.2020 to 22.8.2020
90.		Case studies in Geo technical engineering – Emphasis on Site history, Human Actions and Simulations	Vishnu Institute of Technology	Webinar	13.8.2020
91.	Mrs. S. Yugasini	Bridges – Behavior & performance assessment	REC	Webinar	01.8.2020
92.		The Transformation needed from a 2G Civil engineer to 5G Civil engineer	REC	Webinar	08.8.2020
93.		Engineering in Youth Leadership	REC	Webinar	08.8.2020
94.		Webinar Series on Modern trends in Survey	KCT	Webinar	11.8.2020 to 14.8.2020
95.		Recent advances in Materials & Technology- A Futuristic perspective	REC	Webinar	19.8.2020
96.		Modern Construction project management tools	SVCE	Entrepreneurship Development Program	19.8.2020 to 24.8.2020
97.		Air pollution – Effects & Mitigation strategies	REC	Webinar	29.8.2020
98.		Mr. P. Muthaiyan	Bridges - Behaviour and Performance Assessment	REC	Webinar
99.	Artificial Engineering in Civil Engineering		KRPIT	Webinar	01.8.2020
100.	Leadership in Construction		Kumaraguru College of Technology	Webinar	01.8.2020
101.	Innovative Technologies and Practices in Construction Industries		Kumaraguru College of Technology	STTP	03.8.2020 to 09.8.2020
102.	The Transformation Needed from a 2G Civil Engineer to 5G Civil Engineer		REC	Webinar	08.8.2020
103.	Author's Conclave		SRM, Ramapuram	FDP	11.8.2020 to 17.8.2020
104.	Recent Advances in Pavement Material Testing and Design		MNMJEC	STTP	17.8.2020 to 22.8.2020
105.	Recent Advances in Materials & Technology - A Futuristic Perspective		REC	Webinar	19.8.2020

106.		Air Pollution - Effects and Mitigation strategies	REC	Webinar	29.8.2020
107.	Mrs. C. Vidya	Bridges-Behaviour & Performance Assessment	REC	Webinar	01.8.2020
108.		Transformation Needed from a 2G Civil Engineer to a 5G Civil Engineer	REC	Webinar	08.8.2020
109.		Recent Advances in Materials & Technology-A Futuristic Perspective	REC	Webinar	19.8.2020
110.		Air Pollution-Effects & Mitigation Strategies	REC	Webinar	29.8.2020

**SEPTEMBER 2020**

1.	Dr. M. Selvakumar	Sustainability - Concepts And Practices	SSN College of Engineering & Indian Green Building Council	Webinar	08.9.2020
2.		Remote sensing and GIS	Hindustan College of Engineering & Technology	Webinar	09.9.2020
3.		Developments in Structural Dynamics & Soil-Structure Interaction	In Association with IIC, NIT Silchar	TEQIP – III One Week Online International Workshop	11.9.2020 to 15.9.2020
4.		Structural Life Assessment and Failure Diagnosis	Mepco Schlenk Engineering College	AICTE sponsored online STTP	14.9.2020 to 19.9.2020
5.		Smart and Sustainable Cities in India, Issues and Challenges	International Webinar	JSSATE & ICI, Bengaluru	19.9.2020
6.		Signature Bridge at Delhi Part-2 Construction and Innovations	Qcrete	Webinar	19.9.2020
7.		Modern Measures on Corrosion of Concrete Structures	Dr. S. & S. S. Ghandhy Government Engineering College, Surat	Webinar	22.9.2020
8.		Interactive Design in Geotechnical Engineering: Theory to Practice	NIT Surathkal, IIT Kanpur & University of Ottawa, Canada	Indo-Canadian Workshop	24.9.2020 to 1.10.2020
9.		Non-Destructive Evaluation of Reinforced Concrete Structures: Non-Destructive Testing Methods	Qcrete	Webinar	26.9.2020
10.		Climate Change Impact on Water Resources Systems	NIT Silchar - TEQIP – III	International Virtual Workshop	28.9.2020 to 2.10.2020

11.	Dr. S. Geetha	Sustainability - Concepts And Practices	SSN College of Engineering & Indian Green Building Council	Webinar	08.9.2020	
12.		Remote sensing and GIS	Hindustan College of Engg & Tech	Webinar	09.9.2020	
13.		Developments in Structural Dynamics & Soil-Structure Interaction	In Association with IIC, NIT Silchar	TEQIP – III One Week Online International. Workshop	11.9.2020 to 15.9.2020	
14.		Seven Correct Steps for Concrete making	Qcrete	Webinar	12.9.2020	
15.		Structural Life Assessment and Failure Diagnosis	Mepco Schlenk Engineering College	AICTE sponsored online STTP	14.9.2020 to 19.9.2020	
16.		Role of Structural Engineer in Architecture.	Webinar	Kumaragru College of Technology	15.9.2020	
17.		Signature Bridge at Delhi Part-2 Construction and Innovations	Qcrete	Webinar	19.9.2020	
18.		Modern Measures on Corrosion of Concrete Structures	Dr. S. & S. S. Ghandhy Government Engineering College, Surat	Webinar	22.9.2020	
19.		Interactive Design in Geotechnical Engineering: Theory to Practice	NIT Surathkal, IIT Kanpur & University of Ottawa, Canada	Indo-Canadian Workshop	24.9.2020 to 1.10.2020	
20.		Non-Destructive Evaluation of Reinforced Concrete Structures: Non-Destructive Testing Methods	Qcrete	Webinar	26.9.2020	
21.		Dr. M. Uma Maguesvari	Role of Structural Engineer in Architecture	KCT	Webinar	15.9.2020
22.			Recent advances in Forensic analysis of Sub and super structure – Bridge Engineering Phase -III	Velagapudi Ramakrishna Siddhartha Engineering College	STTP	14.9.2020 to 19.9.2020
23.			Earthquake Resistant Design of Concrete & Steel Moment Resisting Frame Buildings	Poornima College of Engg, Rajasthan.Tech.Univ	FDP	21.9.2020 to 25.9.2020
24.			Waste to Wealth	KCT	Webinar	30.9.2020
25.		Mrs. S. Muthu Lakshmi	Interactive Design in Geotechnical Engineering: Theory to Practice	NITK Surathkal, IIT Kanpur and University of Ottawa, Canada.	Indo-Canadian Workshop (online)	24.9.2020 to 1.10.2020

26.	Mr. M. Ammaiappan	Rising the Research Visibility of You Institute	Inpods Ed tech	Webinar	05.9.2020
27.	Mrs. V. J. Vedhanayaghi	Application of Lean Management in Construction Industry	Kongunadu College of Engineering and Technology, Trichy	Webinar	01.9.2020
28.		Green and Sustainable Geotechnics for the 21st Century Infrastructure	Vishnu Institute of Technology, AP	Webinar	02.9.2020
29.		“Disaster Mitigation – A shift from Disaster Management towards Disaster Preparedness”	B.S. Abdur Rahman Crescent Institute of Science and Technology	STTP (AICTE Sponsored)	07.9.2020 to 12.9.2020
30.		“Design of Earthquake Resistant Structures”	NITTR, Chennai	ATAL Online FDP	21.9.2020 to 25.9.2020
31.	Mr. E. S. Karthic	Drone Surveying and Mapping Via GIS Software	Jaypee University of Engineering and Technology, Guna	Webinar	12.9.2020
32.		Emerging Threats against the water security"	Dr.S. & S.S.Gandhy Government Engineering College Surat	Webinar	15.9.2020
33.		'Long Span Bridge Construction'	IEI Headquarters	Webinar	24.9.2020
34.	Mrs. S. Yugasini	Role of Structural Engineer in Architecture	KCT CBE	Webinar	15.9.2020
35.	Mr. P. Muthaiyan	Role of Structural Engineer in Architecture	KCT CBE	Webinar	15.9.2020
36.		Earthquake Resistant Design of Concrete & Steel Moment Resisting Frame Buildings	Poornima College of Engg, Rajasthan.	FDP	21.9.2020 to 25.9.2020
37.		Sustainable Transport for Smart Cities	St Peter's College of Engg and Tech, Chennai.	STTP	21.9.2020 to 26.9.2020

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