



**College of Engineering**

# EDIFICE JANUARY 2022



**DEPARTMENT OF  
CIVIL ENGINEERING**

**VOLUME 7 ISSUE 1  
NEWS LETTER**

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With the pandemic slowly becoming an endemic, we're slowly getting back on track with offline classes. While students are relieved to be back and are happy that they can interact with their friends, classmates and teachers in person rather than talking to them across a screen, the transition has been challenging. The pandemic brought in a drastic change in the learning spectrum and education systems too have changed from pre-pandemic times.

I am very happy to report that we, the department of civil engineering, organized a number of events on a plethora of topics keeping in mind student welfare and development. Among various events, INVENTE6.0 in the month of October proved to be a massive success with over students from across colleges participating in technical as well as non-technical events conducted by our students. I am delighted to add that the department of civil engineering, SSN college of engineering, has signed a memorandum of understanding with Builder's Association of India, Larsen & Toubro Ltd, Mahindra Consulting Engineers Ltd, and Zues Consultants Pvt Ltd during this period. The number MoU's signed by the department is now six. This opens up many gates for our students including increased preparedness for the industry and internship opportunities. One such benefit is that we have attached seven groups of final year students with the industry for doing their design project.

I am pleased to report to you that our students, under the dedicated mentorship of our faculty members, are actively pursuing research under the Internally Funded Student Projects (IFSP). Although the transition from online to offline has been sudden, it is more than good news for us. Here's to hoping that 2022 proves to be the end of Covid and start to the great things that are yet to come.

**Engineering and the need..****Dr. B. Mahalingam, Associate Professor**

Our relentless drive to convert a country into an educational powerhouse resulted in literacy rate of 77.7 % (84.7% male and 70.3% female) as per 2017-2018 Survey of National Statistical commission as against a rate of mere 18% (27% male & 9% Female) in 1951. When I look back, we have made a huge progress in terms of sheer numbers despite many challenges we have had as a nation. Somewhere along the way India lost the initiative it had held. While scientists and engineers in the West made new discoveries and inventions, enlarging their understanding of the physical world, and spearheading rapid industrialisation and economic progress, India lagged behind and today, is still in the process of catching up.

Engineering education world over is currently under tremendous strain as it is trying to cope up with the educational implications of globalisation of the economy, rapid technological advances in most fields, the emergence of totally new technologies and the continuing shortening of half-life of engineers' effectiveness. In India, the problem is even more acute due to large scale expansion of degree education particularly through privately managed institutions, the growing obsolescence of teaching and training equipment and methodologies, and the reducing financial support from the government. The need for laying down quality standards for the educational process has therefore become urgent. Standardisation should not mean discouragement to innovative educational methodologies or curbing of individual institutional initiatives, but only setting up benchmarks which must be crossed by all institutions in time allowing for further raising of the quality standards and the benchmarks.

**Dr. B. Mahalingam, Associate Professor**

## Economy of India

Historically, India was the largest economy in the world for most of the second millennia, from the 1<sup>st</sup> until the 19<sup>th</sup> century.

We are the world's sixth-largest economy by nominal GDP and the third-largest by purchasing power parity (PPP). Since the start of the 21<sup>st</sup> century, annual average GDP growth has been 6% to 7% and from 2014 to 2018, India was the world's fastest growing major economy, surpassing China.

In 2019-20, the foreign direct investment (FDI) in India was \$74.4 billion with the service sector, computer and telecom industry remains leading sectors for FDI inflows. The service sector makes up 50% of GDP and remains the fastest growing sector, while the industrial sector and the agricultural sector employ a majority of the labour force. The Bombay Stock Exchange and National Stock Exchange are some of the world's largest stock exchanges by market capitalization.

India is the world's sixth-largest manufacturer, representing 3% of global manufacturing output. Nearly 66% of India's population is rural and contributes about 50% to India's GDP. India has the world's fourth-largest foreign-exchange reserves worth \$585 billion. India is the world's largest manufacturer of generic drugs, and its pharmaceutical sector fulfills over 50% of the global demand for vaccines.

The Indian IT industry is a major exporter of IT services with \$200 billion in revenue and employs over four million people. India's chemical industry is extremely diversified and estimated at \$178 billion. India ranks second globally in food and agricultural production, while agricultural exports were \$35.09 billion. The construction and real estate sector ranks third among the 14 major sectors in terms of direct, indirect and induced effects in all sectors of the economy.

The Indian textiles industry is estimated at \$100 billion and contributes 13% to industrial output and 2.3% to India's GDP while employs over 45 million people directly. India's telecommunication industry is the world's fastest growing and second largest by the number of mobile phone, smart phone, and internet users

**Engineering and the need..****Dr. B. Mahalingam, Associate Professor**

The Indian automobile industry is the world's fifth-largest by production. It has \$1.17 trillion worth of retail market which contributes over 10% to India's GDP and has one of the world's fastest growing e-commerce markets. India has the world's fourth-largest natural resources, with the mining sector contributing 11% to the country's industrial GDP and 2.5% to total GDP. It is also the world's second-largest coal producer, the second-largest cement producer, the second-largest steel producer the second-largest sugar producer and third-largest electricity producer. Our resilience, perseverance and dedication have demonstrated that we are a nation awakened!

It gives me great hope and optimism when I look at all these.

We are a nation that is awakening! Our future is secured. "The future India will be much Greater than the past India. It is we engineers who must shoulder the responsibility of building a strong Nation and ensure a high standard of life for our people.

(Educational Institutions) Organisations must constantly examine their strengths and weaknesses, their competitive positioning, their long-term strategy, and their portfolio of businesses. Based on this ongoing analysis, they must change their structures and reallocate their resources optimally, to maximize the value that they deliver to their stakeholders. The art of managing change hinges on the organisation's ability and willingness to learn, anticipate the future and implement strategic change to enable it to continue to successfully compete under all conditions. Approach to strategic change requires leaders to realign the strategy, structure, process, technology, and people of the organisation to fully capitalise on available opportunities.

Only a concerted effort on the part of the government, the industry, and the educational and research institutions can change the course of events as they have progressed so far in India, but the critical responsibility in this task of rebuilding our nation still rests with the engineers.

While education continues to be a challenge, we have to do a lot to reap demographic dividend of India's comparatively **young population** (By 2026 India's average age would be 29 which at least among the global average. The U. S. Census Bureau predicts that India will surpass China as the world's largest country by 2025, with a large proportion of those in working age category. Over the next two decades the continuing demographic dividend in India could add about two percentage points per annum to India's per capita GDP growth. Harnessing this human potential will

**Engineering and the need..****Dr. B. Mahalingam, Associate Professor**

need us to be focussed and conscious as wet forth this vision.), given where we came from and where we are, I am confident and optimistic that we will prevail and our relentless focus on educating our youth will pay us rich dividends.

Engineering Skills required:

The Engineering learners should have to achieve the following engineering skill in their college itself.

- Systems Integration: Synthesis
- Engineering Sciences: analysis
- Problem formulation as well as problem solving
- Engineering Design
- Ability to realize products
- Facility with intelligent technology to enhance creative opportunity
- Ability to manage complexity and uncertainty
- Teamwork; sensitivity in interpersonal relationships
- Language and multi-cultural understanding
- Ability to advocate and influence
- Entrepreneurship; management skills; decision making
- Knowledge integration, education and mentoring

This would require considerable changes in the ‘Core’ Curriculum and transforming the path of “Science and Engineering through Education” to “Education through Science and Engineering” wherein the emphasis would be on Three Pillars of sustainability ie., Eco centricity, Socio centricity and techno-economic centricity.

Development is the development of people, their creative and innovative attitudes, problem solving and productive capacities. Education is the catalyst or motor that drives this development process. A person so educated should have a sense of competence, a feeling of educational identity, a satisfactory lifestyle. He should thus become an asset and not a liability to the society. Education is man making, making a ‘complete ‘man with character, competence and self-reliance. Self-reliance is the focal social value. Education should, therefore, be conceived as development education increasing the productive capacity of large number of people than increased productivity of small number of people.

Therefore, it is in the best of the interest of the FRATERNITY to keep themselves abreast with the latest developments and information's regarding the profession of Engineering, through various sources and modes.

At the departmental level there are bouquets of all association activities, only participation by the FRATERNITY to make best use of these activities, is required. As Engineering Professional Fraternity, it is in everybody's interest to make all such programs successful in achieving its objective of overall GROWTH and DEVELOPMENT of Engineering as a PROFESSION.

A good engineering professional today is familiar with the tool of analysis, synthesis, optimisation and 'design, has capacity to think, innovate and create new artefacts or systems, is concerned about quality, reliability, productivity and cost-effectiveness of his/her endeavour, is aware of the impact of his work on environment and society, and is willing and eager to work in a team in tackling problems of national development and societal transformation. Every engineering institution wants to produce good engineering professionals. A good quality assurance system can help identify weaknesses, develop strategies to remove them, and assist in the creation of an academic atmosphere, which encourages originality, creativity, and innovative ability.

To become good professional, understanding the need to achieve sustainability in the systems, by contemplating for finding renewed ways of thinking and working, is required. With an attitude of acceptance and adaptability to changes in thinking and working is key to growth with better sustainable systems. It is we engineers who must shoulder the responsibility of building a strong Nation and ensure a high standard of life for our people.

Carry out duties diligently without fear or favour. Being ethical is not an extra skill we have to acquire but it should be a part and parcel of our being itself. We can be smiling, friendly, amicable, smooth talking, approachable, flexible but still be firm when handling ethical questions related to work. Out wrong ethics, morals, and failure to perform our proper actions will cost others dearly.

Professional ethics is something which is not new. The compensation we can expect as a result of ethical behaviour is TRUST, which is arguably the most valuable form of payment available.



LEARN, UNLEARN and RELEARN by writing articles, sharing knowledge, and participating in all activities to up skill yourself.

To CONCLUDE let us put into practice this learning from the epitome of knowledge “Bhagavad Gita”.

### **Karma-Yoga**

*saktah karmany avidvamsa yatha kurvanti bharata  
kuryad vidvams tathasaktas cikirsur loka-sangraham*

#### **Translation**

**As the ignorant perform their duties with attachment to results, similarly the learned may also act, but without attachment, for the sake of leading people on the right path.**

Acknowledgements:

The author has drawn upon other earlier publications, and, the other referred material, in preparing this article, besides information from the open sources on the web.

## **1.Webinar on “Glass as a Building material”**

Date : 16th November 2021

Time : 9:45 am

Resource person details: Resource person:

Mr. Kumar Ankur - Design consultant - South and North India

Saint-Gobain

### **REPORT:**

SSN IGBC student chapter organized a technical sharing session on “Glass a building material”. The expert speaker was Mr. Kumar Ankur, Design consultant, Saint-Gobain. The speaker clearly explains about the glass, which is used for Construction purpose. Then he explains about the glass manufacturing raw materials. The speaker explains about the reusable capacity of glass makes it a sustainable building material. Then glass manufacturing float process, properties of glass, façade glass selection criteria, performance parameters of glass, types of glass were clearly explained. The speaker also explained various case studies in detail. Overall the session was interesting and informative.

## 2. Online technical sharing session on “New Building Materials and Technologies - Silicone, Sealants & Adhesive”

**Date:** 23rd November, 2021

**Time:** 9.45 am

**Resource person details:** Mr. Ravishankar Subramanian, Manager, technical service and development, Dow Chemicals

### REPORT:

SSN IGBC student chapter organized an online technical sharing session on “New building and technologies – Silicone, Sealants and adhesive”. The speaker was Mr. Ravishankar Sivasubramniyan, manager, technical services and development, DOW chemicals.

The components of the training session consists of The agenda, Sealants- Adhesive, Fascade , Silicon Sealants , Types of structural glazing , Insulation Glass , Project Management services in DOW, Panel Bonding and Two case Study on The durability and Projects done By DOW chemicals industry. The speaker explained in detail about the innovation done in the adhesive Sealants which made it to withstand for larger Time span and weather conditions. The speaker explained about the projects which involved the silicon sealants and Facade and many other things related to the topic were discussed.



The poster is a green and white graphic with a background image of a modern building. It features the logos of SSN, IGBC, and CCPS at the top. The text on the poster reads: 'SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING (AN AUTONOMOUS INSTITUTION – AFFILIATED TO ANNA UNIVERSITY) KALAVAKKAM, CHENNAI-603110 DEPARTMENT OF CIVIL ENGINEERING SSN IGBC STUDENT CHAPTER AND CONFEDERATION OF CONSTRUCTION PRODUCTS AND SERVICES(CCPS) INVITES YOU ALL FOR THE ONLINE TRAINING SESSION ON NEW BUILDING MATERIALS AND TECHNOLOGIES SILICONE, SEALANTS AND ADHESIVE'. A photo of Mr. Ravishankar Subramanian is shown with his title 'Manager – Technical service & Development Dow Chemicals'. At the bottom, it lists 'Dr. SRINATH RAJAGOPALAN COORDINATOR' and 'Dr. N. SIVAKUMAR HEAD OF THE DEPARTMENT'. The date is '23/11/2021' and the time is '9:45 AM'. A meeting link is provided: <https://meet.google.com/ymz-cvba-ndf>. It also states 'E- CERTIFICATES WILL BE PROVIDED'.

**Indian Concrete Institute (ICI)**

**ICI Student Chapter**

## **Activities in the Month of September 2021**

### **Virtual site visit of the reinforcement works in an apartment complex**

**Date:** 04.09.2021

**Time:** 11.00 AM – 12.00 AM

**Banner:** SSN ICI Student Chapter

**Speaker:** Dr. N Sivakumar

SSN – ICI Student Chapter organised a Virtual site visit of the reinforcement works in an apartment complex 4<sup>th</sup> September 2021. The expert speaker was Dr. N Sivakumar, Head of the Department, Department of Civil Engineering, SSN College of Engineering.

The session started with the welcome address given by S Sandhya, President, SSN – ICI Student Chapter. The session started with the speaker showing us the reinforcement works in an apartment complex. He showed and explained how the bars are tied and latter placed in the formwork after which concrete will be poured, He also showed and explained about the stirrups, wall construction and reinforcements in staircase. The session concluded with question-and-answer session followed by the vote of thanks by Sathya Shree T R of 3<sup>rd</sup> year.

The participants found the session to be highly informative and interesting. The session was interactive and the benefitted included over 50 participants.

**Indian Concrete Institute (ICI)**

**ICI Student Chapter**

## **Workshop on Advanced Construction Materials and Structures**

**Date:** 09.09.2021

**Time:** Session 1: 10.00 AM – 11.30 AM  
Session 2: 01.30 PM – 03.00 PM

**Banner:** SSN ICI Student Chapter

**Speaker:** Session 1: Dr. K N Lakshmikandhan, Session 2: Dr. J Revathy

SSN – ICI Student Chapter organised an “Workshop on Advanced Construction Materials and Structures”, 9<sup>th</sup> September 2021.

The expert speaker for the first session was Dr. K N Lakshmikandhan, Senior Scientist, SERC – CSIR. The session started with the welcome address given by Dr. Sreehari, Professor, Department of Civil Engineering, SSN College of Engineering, and Dr. P Sangeetha, Faculty Coordinator, SSN – ICI Student Chapter, and Associate Professor, Department of Civil Engineering, SSN College of Engineering, briefed about the speaker.

The session started with the speaker explaining us the various problems that occur in concrete and how the concrete structures failure. Later he briefed on why concrete is preferred construction material and why it is used worldwide for the construction purposes he briefed on various designs that are done to maintain the structure from deterioration. The forenoon session concluded with question-and-answer session followed by the vote of thanks by Sreeharini S T of 3<sup>rd</sup> year.

The expert speaker for the second session was Dr. J Revaty, Professor, BS Abdul Rahman Institute of Science and Technology. The session start with Sandhya S, President, SSN – ICI Student Chapter, welcoming the gathering once again and Rushikaa S from 2<sup>nd</sup> year briefed about the speaker.

## Indian Concrete Institute (ICI)

### ICI Student Chapter

The session started with the speaker explaining us about the various strengthening processes that are done in the various components of the superstructure. She briefed on the installation techniques of columns, strengthening of columns, strengthening of beams, the calculations such as slip calculations, etc. Later she briefed on beam column joints and FRP tubes and real time applications of FRP for the repair of underwater concrete damaged PSC piles. The session concluded with the vote of thanks by Sathya Shree T R Vice – President SSN – ICI Student Chapter.

The participants found both the sessions to be highly informative and interesting. The session was interactive and the benefitted included over 80 participants.

**Institution of Civil Engineers (ICE)**

**ICE Student Chapter**

## **Event 1: Nanotechnology and the Future of Thermal Insulation - 24th September 2021**

“There's Plenty of Room at the Bottom” - Richard Feynman statement in one of his lectures paved way to the development of Nanotechnology. Nanotechnology is the understanding and control of matter at the nano scale (1- 100nm) in other words specific properties of a matter can be discovered by manipulating on atomic level and therefore leading to the discovery of new material. Nanotechnology is gaining popularity because of its extensive advantages in the fields of science such as engineering, medicine, research, material science, cosmetics, nanoelectronics etc. With the help of nanotechnology, the mechanical properties of concrete, steel, wood are altered as per requirement.

ICE(UK) SSN Student chapter organised its first webinar for the academic year 2021-2022 on 24th September 2021 on the topic Nanotechnology and the Future of Thermal Insulation, the webinar was delivered by Omar Obaid, Product Specialist at IZOTECK Liquid Ceramic Nano Thermal Insulation.

The following points were covered by the speaker:

- What is Nanotechnology.
- How Nanotechnology is implemented to obtain a desired substance.
- Application of famous Nanomaterial (Carbon tubes, Graphene, Ceramic hollow microspheres etc) in industries.
- Types of insulation required for a building- water, sound, fire, corrosion and thermal.
- Reasons for which thermal insulation must be given importance in a project

## Institution of Civil Engineers (ICE)

### ICE Student Chapter

- A discussion on conventional methods of thermal insulation (polyurethane, fibreglass, rockwool) and their drawbacks.
- Introduction to IZOTECK Liquid Ceramic Nano Thermal Insulation
- A comparison between ISOLLAT Nano Thermal Insulation Coating and traditional insulation
- How ISOLLAT works.
- Unique properties of ISOLLAT over conventional insulation materials.
- Companies which prefer ISOLLAT Liquid Ceramic Nano Thermal Insulation.
- Photos of the project where ISOLLAT coating has been applied.

The session was followed by a Q&A round where the doubts of the participants was answered by the speaker. A small surprise quiz was conducted after Q&A in Kahoot Platform. Top 3 performers were appreciated with e-certificates. The webinar was concluded by proposing vote of thanks.

#### **Other Meeting Details:**

**Meeting Platform:** Google Meet

**Date and Time:** 24th September 2021;11.00 am-12.15 pm.

**Attendees:** 100+ (Students, Staff and Faculty Members)

**Organising Team:** Srinidhi (2nd year), Jeyashree (3rd year), Naveen Kumar (3rd Year), Naveen Prasath (3rd year), Vishnu (4th year)



## Institution of Civil Engineers (ICE)

### ICE Student Chapter

#### Event 2: CAREER PROSPECTS IN CIVIL ENGINEERING - 28th September 2021

“If you cannot see where you are going, ask someone who has been there before” a quote by J Loren Norris emphasise the importance of a mentor. School or college students are put into a perplexed state when it comes to what next in their future. For a student to succeed in their career, they must be aware of:

- The opportunities available in the next level
- Their area of interest
- Growth Mindset

To make it easier for students pursuing civil engineering, ICE(UK) SSN Student chapter organised a webinar on the topic “CAREER PROSPECTS IN CIVIL ENGINEERING” delivered by Mr. Sarang Molkar, director at Turner and Townsend, Hyderabad.

The following points were discussed in the meeting:

- Importance of civil engineering
- Past, Present and Future demand of civil engineers.
- Subjects in civil engineering
- Types of Projects in civil engineering- Infrastructure and Building Projects
- Jobs after completing civil engineering
- Introduction about Turner and Townsend firm – their vision and services.
- Sectors Turner and Townsend working with – Corporate occupier, Investor and Developer, Data centre, Industry and Manufacturing, Retail, Education, Hospitality and leisure.
- Journey of Sarang Molkar- from a quantity surveyor to Director at Turner and Townsend.

The session was followed by Q&A session where the doubts of the participants was answered by the speaker. The meeting was concluded by proposing vote of thanks.

## Institution of Civil Engineers (ICE)

## ICE Student Chapter

### Other Meeting Details:

**Meeting Platform:** Microsoft Teams

**Date and Time:** 28th September 2021; 11.00am - 12.00pm.

**Attendees:** 100+ (Students, Staff and Faculty Members)

**Organising Team:** Nitesh.M (2nd year), Srinidhi (2nd year), Bharathi.M (3rd year), Meenaksi.V (3rd year), Naveen Kumar (3rd year), Vishnu (4th year).



**SSN** **ice**  
SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING  
(An Autonomous Institution affiliated to Anna University)  
DEPARTMENT OF CIVIL ENGINEERING  
&  
INSTITUTION OF CIVIL ENGINEERS(UK) STUDENT CHAPTER  
Invites you for the WEBINAR on  
**SEPT 28 2021 @ 11 AM**  
**CAREER PROSPECTS IN CIVIL ENGINEERING**

**SPEAKER**  
**Mr. Sarang Molkar, MRICS**  
Director at Turner & Townsend  
Hyderabad, Telangana, India

**HEAD OF THE DEPARTMENT**  
**DR. N. SIVAKUMAR**  
**FACULTY COORDINATOR**  
**DR. JIJO JAMES**

[CLICK HERE TO REGISTER](#)

**The Institution of Engineers (IEI)**

**IEI Student Chapter**

## **A BRIEF OF IEI Student chapter activities**

### **1)WEBINAR ON INTRODUCTION TO MS PROJECT**

Date: 18<sup>th</sup> August 2021

Speaker Details: Mr. Bala Sakthivel, BIM Modeler, Trainer from Wall flower designs and Engineers.

Banner: SSN IEI Students chapter

Time:10.00 A.M – 12.00 P.M

### **2) WEBINAR ON PRACTICAL TIPS FOR SAFETY IN CONSTRUCTION SITE**

Speaker Details: 25<sup>th</sup> August 2021

Speaker Details: Mr. Bala Surendaran Sivasubramaniam, Project director at Sobha construction and engineering, Dubai.

Banner: SSN IEI Students chapter

Time:12.00 P.M – 1.00 P.M

### **3) WEBINAR ON INDUSTRIAL EXPECTATIONS AND FACING INTERVIEWS**

Date: 24<sup>th</sup> August 2021

Speaker Details: Mr. Nagarajakumar Krishnaswamy, Principal of Manufacturing Innovation Innomantra consulting and a speaker at CII.

Banner: SSN IEI Students chapter

Time:6.00 P.M – 7.30 P.M

**The Institution of Engineers (IEI)**

**IEI Student Chapter**

## **4) IEI KNOWLEDGE SHARING SESSIONS ON ‘SAFETY PRACTICES AND AUDIT IN CONSTRUCTION**

Date: 20.9.2021 TO 26.9.2021

Speaker Details: final year students from Civil department from SSN college of engineering.

Banner: SSN IEI Students chapter

Time:6.00 P.M – 7.00 P.M

## **5) WEBINAR ON TOPIC “ENGINEERING INTERVENTION AND SOLUTIONS FOR STRUCTURAL ENGINEERING PROBLEMS**

Date: 29.9.2021

Speaker Details: was Dr.A. Kanchanadevi, Senior scientist, Fatigue and fracture laboratory, CSIR-Structural engineering research centre.

Time:1.00 P.M – 3.00 P.M

**The Institution of Engineers (IEI)**

**IEI Student Chapter**

## **1) WEBINAR ON INTRODUCTION TO MS PROJECT**

**Date:** 18<sup>th</sup> August 2021

**Speaker Details:** Mr. Bala Sakthivel, BIM Modeler, Trainer from Wall flower designs and Engineers.

**Banner:** SSN IEI Students chapter

**Time:** 10.00 A.M – 12.00 P.M

## **REPORT FOR WEBINAR ON ‘INTRODUCTION TO MS PROJECT**

- On the 18<sup>th</sup> August 2021, the Department of Civil Engineering, SSN College of Engineering organized a webinar on ‘INTRODUCTION TO MS PROJECT’. The speaker was Mr. Bala Sakthivel, BIM Modeler, Trainer from Wall flower designs and Engineers.
- The session started with the speaker briefing on the importance of software in civil engineering and why we should learn them. The speaker later gave us an insight on different software’s used in the construction Industry, and gave brief information on STAAD PRO, TEKLA software, and where they are used. The speaker further spoke on the freelancing opportunities Students can acquire by learning design software. He further explained to us on the importance of learning to design approval drawings and how it opens up freelancing and employment opportunities for students.
- Later a practical session on Revit software was conducted, where the speaker demonstrated on how to work with Revit software. He further explained and demonstrated on how elevation, 3D view, interiors, rendering are done in Revit software. He also advised the students on how to deal with the challenges faced by civil engineer’s post graduation and how to prepare oneself for it.

## The Institution of Engineers (IEI)

### IEI Student Chapter

- The Next session commenced with the speaker briefing on MS project software, where it is used. He further Explained to us on how it assists project managers, the advantages of using MS Project software and features of the software. The speaker then spoke about the three phases of project life cycle. This was followed by a practical session on how to work with MS Project software. The speaker explained to us about different features of the software and how to use them, and their functionality. The speaker demonstrated to us on how to add tasks with dates and create timeline for a project using MS Project software
- The participants comprised of students and academicians. The participants were able to get an Insight on different software used by civil engineers. The participants also practically got to see and learn the Basics on how to use Revit and MS project software. On the whole the session proved to be very informative and the audience were able to gain knowledge on Revit and MS Project software and the employment opportunities they gain by learning them.

Total Participants benefitted: 100

**The Institution of Engineers (IEI)**

**IEI Student Chapter**

## **2) WEBINAR ON PRACTICAL TIPS FOR SAFETY IN CONSTRUCTION SITE**

Date: 25th August 2021

Speaker Details: Mr. Bala Surendaran Sivasubramaniyam, Project director at Sobha construction and engineering, Dubai.

Banner: SSN IEI Students chapter

Time: 12.00 P.M – 1.00 P.M

### **REPORT ON WEBINAR ON PRACTICAL TIPS FOR SAFETY IN CONSTRUCTION SITE**

On 25th August 2021, The department of civil engineering, SSN College of engineering, organized a Webinar on Practical tips for safety in construction site

The speaker was BALASURENDRAN SIVASUBRAMANIYAM, Project director at Shoba construction and engineering, Dubai.

- The Webinar started with a brief introduction of the speaker followed by a welcome speech. The speaker started the webinar by explaining the Major safety procedures followed in a construction site. The speaker later emphasized on the importance of preplanning and safety measures to be followed while working at larger heights and the severity of damage, hazards that would take place if safety measures are not followed.
- The speaker later discussed and explained about risk assessment, RTB, Task force, Simulation Operators and Training programs which the workers and staff working at site must undergo and be aware of. The speaker then continued explaining the different cautions to be followed while working at larger heights and Danger faced by the workers in that condition.

## The Institution of Engineers (IEI)

### IEI Student Chapter

- The hierarchy control like elimination, protection, coordination and Duration of work were detailed and explained by the speaker. The speaker further briefed the attendees on the mechanism of scaffold, toolbox tasks, Provisional training, safe scaffolding methods.
- The speaker later highlighted on importance of ensuring use of safe equipment and how to check for its safety on site. Towards the end the speaker gave an explanation on Fall protection system like guardrail system, lifeline system, Personal fall arrest system, last line of Defense, Snap hooks and Anchorage points. This was followed by question and answer session where the students clarified their queries.
- The participants comprised of students and academicians. The participants were able to get a glimpse on different methods to be followed to be safe while working at construction site. On the whole the Webinar proved to be very informative and the participants were able to gain knowledge on Practical tips for safety in construction site. The Webinar ended with a vote of thanks from the event Organizer.

No of participants: 48



**The Institution of Engineers (IEI)**

**IEI Student Chapter**

### **3) WEBINAR ON INDUSTRIAL EXPECTATIONS AND FACING INTERVIEWS**

Date: 24<sup>th</sup> August 2021

Speaker Details: Mr. Nagarajakumar Krishnaswamy, Principal of Manufacturing Innovation Innomantra consulting and a speaker at CII.

Banner: SSN IEI Students chapter

Time: 6.00 P.M – 7.30 P.M

### **REPORT ON WEBINAR ON INDUSTRIAL EXPECTATIONS AND FACING INTERVIEWS**

On 24th August 2021, the department of civil engineering, SSN College of engineering organized a Webinar on Industrial expectations and Facing Interviews The speaker was Nagarajakumar Krishnaswamy, Principal of Manufacturing Innovation Innomantra consulting and a speaker at CII.

- The Speaker started the webinar by interacting with the attendees, so as to make the webinar interactive. The speaker used several anecdotes and metaphors to make the participants understand the experience of student attending the interview.
- Firstly, the speaker explained - various qualities a student attending an interview must develop, they include right Attitude, persuasive skills, endurance, staying motivated, determined, energetic, and Creative. After each topic of discussion, the speaker had arranged for some quizzes which helped students test their knowledge and made the session interactive.
- He then gave us an insight about the different traits which the students must possess. The speaker later explained on importance of having knowledge in wide areas including but not limited to business

## Institution of Engineers (IEI)

### IEI Student Chapter

- Technical skills, English fluency, and software knowledge. He also explained about what a company expects from a candidate some of which include developing organizational culture, being a team player, and time management.
- The speaker later detailed to us on the functional and behavioral knowledge students must learn and equip oneself with. Following this a case study was discussed through which students got to know about the mistakes one should avoid while doing internships.
- The session concluded with speaker explaining the Do's and Don't's while attending an interview with the help of a video clipping. This was followed by a question and answer session where the students got to clarify all their queries.
- The participants comprised of students and academicians. The participants were able to get a glimpse on how to prepare themselves for an interview. On the whole the session proved to be very informative and the participants were able to gain knowledge on Industrial expectations and Facing interviews. The Webinar ended with an Energetic Pledge stating they would follow all the practices mentioned in the webinar and develop themselves, which was taken by all the participants.

No of participants: 46

## Association of Civil Engineers

### ACE Student Chapter

#### ASSOCIATION OF CIVIL ENGINEERS

Association of Civil Engineers (ACE) acts as an avenue for the students to get along with each other and work as a team guided by the Head of the Department and the department faculty in conducting various cocurricular activities. ACE was formally inaugurated for the current academic year on 8 th Sep 2020, by Mr. Sivaguru Prabhakaran, M.Tech., IAS, Sub-Collector, Kodaikanal. The following activities were held under its banner. The ASSOCIATION OF CIVIL ENGINEERS conducts a vast array of events, ranging from technical to non-technical, which holds the interests of the diverse students who take part in them.

#### INVENTE6.0



Association of Civil Engineers

ACE Student Chapter

## Architecture at zero

The "Architecture at zero" is a technical competition which aims to bring together multi-disciplinary teams active in the design and construction industry to present a building redesigning project using the various Building Information Model (BIM) tools available in the market. The Competition's objective is to promote practical uses of BIM through collaborative and competitive learning approach among tertiary students in construction related disciplines.

## Quizzard of oz

A technical event comprising of questions to test our knowledge. The participants are split into teams. Event comprises of 2 rounds and the teams for round 2 are chosen with points and bonus obtained from the round 1. The winning team with highest score are rewarded with exciting prizes.

## Paper Presentation

### “Perspective”

"Many can pack the cards but a few can play the game". All of us claim to study but only a few of us can delve deep into the subject in order to present what we have gained from our studies. Quite often a person's presentations go through our ears, only a few get attached to the heart, expand to the limbs and are finally established in actions. Presentations, now a day, are an indispensable part of the corporate sector. People wanting to move mountains in future must begin by carrying small stones and this is the impetus of this technical paper presentation. The purpose of this technical paper presentation is to judge efficaciously how skilled we are in our own fields.



## Association of Civil Engineers

### ACE Student Chapter

#### **Clash of Minds**

Clash of minds is an elegant, modern form of debate which involves a team of students working to effectively convince a judge that their side of a resolution is, as a general principle, more valid. Students in debate develop balanced leadership skills by researching multiple perspectives extensively to understand both sides of the resolution, and learn to think critically about every argument that could be made on each side. Below are two exciting forms of debate for our Indian students. These events facilitate student collaboration.

#### **Deal or No Deal**

"Successful negotiation is not about getting to 'yes'; it's about mastering 'no' and understanding what the path to an agreement is."

Deal or no deal is a technical event where the negotiation skills of the participants are tested. All the participants will be split into 2 groups - the dealers and the buyers. A certain number of properties will be divided equally among the dealers and a certain amount of cash will be divided equally among the buyers. The buyers are supposed to buy as much properties as they can with the money they have and the dealers are supposed to earn as much money as they can with the properties they have. The best negotiator among the dealers would be the one who has the most cash at the end of the event. And the best negotiator among the buyers would be the one with the most number of properties at the end of the event. Top 3 negotiators from the buyers and top 3 negotiators from the dealers will be selected and among them the winner will be chosen by the judges and will win exciting prizes!

**Association of Civil Engineers**

**ACE Student Chapter**

## **Solution au problème**

Usually there are three solutions to every problems: accept it , change it or leave it...If you can't accept it , change it and If you can't change it ,think more because there must be no chance of leaving it.....

So solution au problème is a technical event which will give u some statements of technical problems. You have to choose a statement and bring us right solution for it. Teams can refer any material and have to submit your abstract before end time. The best abstracts will be shortlisted for presentation of their idea. Based on presentation of abstracts, teams will be selected for final presentation in which your ppt work, innovation and changes you done by review of reviewers. Finally, the best teams will be chosen as winners and review panel decision will be final.

## **"ACE IT " (Valorant game championship)**

A non-technical event based on the game - VALORANT. Valorant is a team-based first-person shooter (5 Vs 5). Players can select an agent from a variety of choices who have their own unique abilities. This game has gained huge popularity in today's gaming world. Both team take turns playing attack or defence and battle their way to get 13 round wins in order to secure the match point. This game requires team co-ordination and communication skills in order to win. Two teams flying on top of the leaderboard will be given exciting cash prizes.

## Association of Civil Engineers

### ACE Student Chapter

#### Netflix wars

A non-technical event filled with challenging rounds to the basic knowledge and memory/recollecting power of candidates for the Netflix shows they binged throughout the lockdown. This event sure does need quick-witted individuals who have general awareness and the necessary trivial skills for the topic. We assure you that this event will test the only work done by the individuals during lockdown and will work as a stress buster yielding great rewards.

#### Unscripted

“Too many people spend too much time trying to perfect something before they actually do it. Instead of waiting for perfection, run with what you got and fix it along the way...”

Unscripted is a semi technical event that tests an individual's extemporising skills. This event includes two challenging rounds in which each participant will be assigned a topic related to civil engineering and they are expected showcase their extemporising skills by speaking atleast 3 minutes about their topic. A preparation time of 1-2 minutes will be allotted for each participant. Based on their speaking skills and the content they deliver; participants will be chosen to advance to round 2. The success of your presentation will be judged not by the knowledge you send but by what the listener receives. The winner will be selected based on the judges scores and will receive exciting prizes.



#### Bob the plumber

A technical event where a certain set of problem statements will be given to the participants. Participants are expected to come up with a design-cum solution for the given problem statements. Problem statements shall propose a need of Solution for building's requirement of suitable pipe connections and water distribution and management within the building based on the given data, which will be provided along with the problem statement. Top 2 winners will be declared, and rewarded with exciting cash prizes.

## Faculty Activities

### Outstanding Concrete Teacher Award



I have received the outstanding concrete teacher award instituted by the Indian Concrete Institute and Ultratech Cement for this year 2021. It gives me immense pleasure and happiness to get this prestigious award recognising my contribution to teaching the beautiful concrete technology to my students. It also motivates me to contribute more towards making the knowledge of concrete reach my students and outside by doing more research on concrete.



## Monthly Activities

## Faculty Activities

### a. External Recognition

Dr. N. Sivakumar acted as Judge for an Oratorical Competition organized by Builders Association of India (BAI), Southern Region, on 21.10.21

Dr. S. Ramana Gopal has been appointed as a Member of the Board of Studies of the Anna University under the Faculty of Civil Engineering to conduct the Board of Studies meeting vide letter no. 3828/AU/CAC/FCE/2021 dated 21.09.21.

Dr. B. Mahalingam was nominated as a member of the DC Panel for the scholar, "Mr. MUGESH M, Full Time (External) - Register No. RA2113001011020 pursuing Ph.D., programme under" SRM Institute of Science and Technology on "12.08.21".

Dr. S. V. Sivapriya delivered an invited lecture titled "Deep Foundation: Types and Advantages" as a part of "Guest Lecture" organized by "Saveetha Engineering College" on "28.08.2021" held via "Online platform".

Dr. S. V. Sivapriya was appointed as a Co-Chair and Session Manager in "8th Indian Young Geotechnical Engineer Conference" hosted by IITM, Anna University, NITTR and SRMISTE during 21- 23, October, 2021.

Dr. S. V. Sivapriya has Delivered an invited lecture titled "Foundation: Does super structure really need a sub-structure??" as a part of "Virtual Seminar" organized by "Indra Ganesan College of Engineering, Trichy" on "1309.2021" held via "Online platform".

Dr. P. Sangeetha acted as an External Examiner for M. Tech- Structural Engineering Project Viva-Voce Examination on 28/7/2021 at Crescent University.

Dr. Jijo James was nominated as a session manager for the biennial 8<sup>th</sup> Indian Young Geotechnical Engineers conference held between 21<sup>st</sup> and 23<sup>rd</sup> of October 2021, jointly organized by IIT Madras, Anna University, NITTTR and SRM Institute of Science and Technology and Indian Geotechnical Society, Chennai Chapter

All India Council for Technical Education (AICTE) has sanctioned Rs. 2,00,000/- as grant for study tour of Atal Tunnel under the AICTE Youth Undertaking visit for Acquiring Knowledge (YuvaK) Scheme during the current FY2021-22.

**Monthly Activities****Faculty Activities****b. Research Activity**

Nahushananda Chakravarthy, Sivakumar Naganathan, Sreedhar Kalavagunta, Kamal Nasharuddin Bin Mustapha. Structural Performance of Experimentally Investigated CFRP-Strengthened Cold-formed Steel Built-Up Columns. Iranian Journal of Science and Technology, Transactions of Civil Engineering, July 2021. <https://doi.org/10.1007/s40996-021-00706-8>

Vijayalakshmi, R., (2021), "Recent studies on the properties of pervious concrete; A sustainable solution for pavements and water treatment", Civil and Environmental Engineering Reports, Vol. 31, No. 3, pp. 54–84.

Sathia, R., Vijayalakshmi, R., (2021), "Fresh and Mechanical property of Caryota Urens Fiber reinforced flowable concrete" Journal of Materials Research and Technology, ISSN: 2238-7854, Vol.15, pp. 3647-3662.

P. Sangeetha, R. Sundareswaran, M. Shanmugapriya, S. Srinidhi & K. Sowmya (2021), "Influential nodes in planar trusses and meshes using centrality measures", Materials Today: Proceedings, Vol.42, No.2, pp. 932-939.

James J, Arthi C, Balaji G, Chandralekha N, Naveen Kumar, R. H. M., Lime activated flyash-phosphogypsum blend as a low-cost alternative binder. International Journal of Environmental Science and Technology (2021). <https://doi.org/10.1007/s13762-021-03618-2>

Sangeetha P, Dinesh Kuma, P, Sai Sahith, I & Ajaykumar, A (2021), "Experimental Investigation on the Cold – Formed Steel – Concrete Composite Beam Under Flexure", Journal of Materials and Engineering Structures, Vol. 8, pp. 135-142.

Sangeetha P, Ramanagopal S, Manjula R & Hema Naga Sri Pushpa Swetha T (2021), "Experimental and Analytical Study on the Impact Behaviour of Steel-Concrete Composite Slab", Electronic Journal of the Faculty of Civil Engineering, Vol. 22, pp. 1-13.

**Monthly Activities****Faculty Activities**

Sivapriya S.V, Harish Kumar.M and Hariraj M.J (2021),” Assessing the retaining wall movement through finite element analysis for sustainable materials as a backfill material”, AIP Conference Proceedings, 2395, <https://doi.org/10.1063/5.0068215>.

M.Shanmugapriya, P. Sangeetha & BapijiPullepu., (2021), " Evaluation of entropy generation with thermal radiation on MHD Carreau fluid stream past a wedge", Materials Today: Proceeding, Vol.38, No-5, pp. 3283-3290

Sajid Ali, Sivakumar, N., Mahalingam, B., (2021), “State of the Art Review on Prescriptive & Performance Based Approaches for Concrete Durability”, International Journal Of Sustainable Construction Engineering And Technology, Vol. 12 No. 2, pp. 80-88.

James, J., Natesan, A., Manohar, A., and Subramanian, V., (2021), "Potential of Portland Pozzolana Cement in the Stabilization of an Expansive Soil Subjected to Alternate Cycles of Wetting and Drying", Gradevinski Materijalii Konstrukcije, Vol. 64, No. 2, pp. 81 - 91.

James, J., Sivapriya, S.V., Ali, S.; Madhu, T.R., Singh, B., (2021), "Wetting and Drying Resistance of Lime-Stabilized Expansive Soils Modified with Nano-Alumina", Electronic Journal of the Faculty of Civil Engineering Osijek-e-GFOS, Vol. 22, pp. 70-80, <https://doi.org/10.13167/2021.22.6>

S. V. Sivapriya, S. Sadhana, N. Prathibha and S. Saranya, Pipe bridge design optimization through a comparative study of truss and girder arrangements, Revista Facultad de Ingenieria, Universidad de Antioquia, No. Nil, September (2021). <https://doi.org/10.17533/udea.Redin.20210957>.

Sivapriya S.V., Madhu T.R and Sajid Ali (2021), "Load - Penetration behaviour of composite soil with nano - alumina material under soaked and unsoaked condition", Ground characterisation and foundations, Lecture notes in Civil Engineering, Scopus Vol. 1, pp. 253 - 259, [doi.org/10.1007/978-981-16-3383-6\\_23](https://doi.org/10.1007/978-981-16-3383-6_23)

Sivapriya S.V., and Gandhi S.R (2021), "A numerical study about the development of stresses zone around single pile when moved away from the crest of the slope under static lateral load", Ground characterisation and foundations, Lecture notes in Civil Engineering, Scopus Vol. 1, pp.677 -682, [doi.org/10.1007/978-981-16-3383-6\\_59](https://doi.org/10.1007/978-981-16-3383-6_59)

## Monthly Activities

## Faculty Activities

### c. Conference Activity

Dr. N. Sivakumar, Dr. B. Mahalingam, David Arunraj B, Madhan Kumar D, Sathish Kumar P, Selvam K" A Study on Expanded Clay Aggregate in Cement Mortar", In: Proceedings of International Conference on "Sustainable Construction" (ICSC 2021) -15.06.2021, Chennai, India.

Dr. S. Ramanagopal presented a paper titled "Comparison of strength and crack arresting behaviour of natural and synthetic fibre reinforced light weight concrete masonry strengthened by GFRP sheets" in the International Conference on Energy and Materials Technologies, held on August 20-21, 2021, organized by SSN College of Engineering, Chennai.

Gokul Krishna J, Sivapriya S.V and Priyadharshini.R., (2021), "Analyzing the feasibility of creating soil profile big data from borehole data", In: Proceedings of 8th Indian Young Geotechnical Conference – 2021, October 21 -23, Chennai.

Mohammed Berradia, Ali Raza, Sangeetha, P, & Riadh Bennai (2021), "Numerical Study of Concentrically Loaded Circular Concrete Columns Strengthened with Both Steel and FRP Sheets", In: Proceedings of International Conference on New Trends in Science and Applications – 2021, (NTSA), October 12–13, Algeria, pp. 26.

Sangeetha, P, Annamalai V.E & Kaythry, P (2021), "Durability studies on concrete with partial replacement of cement and coarse aggregate by seashell waste", In: Proceedings of International Conference on Sustainable Technology and Development – 2021, October 31–November 2, Shenzhen, China.

Kaythry, P, Sangeetha, P& Annamalai V.E & (2021), "Monitoring the impact of air quality during covid-19 in Chennai, India: Using machine learning techniques", In: Proceedings of International Conference on Sustainable Technology and Development – 2021, October 31–November 2, Shenzhen, China.

Sushritha, G., and Jijo James, 2021, "Optimum Lime Content Stabilized Expansive Soil Modified with Egg Shell Ash", In Procs. of the 8th Indian Young Geotechnical Engineers Conference, 21-23 October, 2021, Chennai, India.

## Monthly Activities

## Faculty Activities

### d. Project News

N. Sivakumar and Co-PI: B. Mahalingam and R. Srinath have applied for External Grant GBP 18700 titled “Sustainable Utilization of Waste Quarry Dust Fines into Developing Bricks” under ICE research and development enabling fund.

Dr. Y. K. Sabapathy has applied for an internally funded faculty project titled “A Study on post cracking behaviour of concrete beams with non-ferrous metallic Reinforcements” for an amount of 2.18 Lakhs (24 months).

Dr. R. Srinath, Dr. B. Mahalingam and Dr. N. Sivakumar have applied for an internally funded faculty project titled “Beneficial use of Waste Quarry Dust Fines in Bricks” for an amount of Rs. 4.20 Lakhs (24 months).

Dr. G. Aswin Sriram and Dr. R. Srinath have applied for an internally funded faculty project titled “Development of SiO<sub>2</sub>-Fused composite Biochar for removal of nutrients from Industrial Wastewater” for an amount of 3.95 Lakhs (24 months).

Dr. N. Surendar, Dr. N. Sivakumar and Dr. N. P. Rajesh (CREST) have applied for an internally funded faculty project titled “Estimation of Surface, Groundwater flow quality and Recharge sources using Modelling Techniques and stable Isotopic Data Signatures” for an amount of 7.91 Lakhs (36 months).

Dr. Surendar Natarajan submitted a proposal on Urban Flood Modeling Approach through Machine Learning, Geospatial Techniques and Risk Analysis Through Various Climate Change Scenario to Indian Institute of Remote Sensing-ISRO-INR 18,27,078

Surendar Natarajan (Civil) Co-PI: N.P. Rajesh (CREST) have applied for External grant for an amount of Rs.17 lakhs through BRNS

**Monthly Activities****Faculty Activities****d. Patent info**

Dr. B. Mahalingam: Patent published detail: Patent applied and published on the topic titled "Utilization of Sensors in concrete to monitor the curing process and compressive strength of concrete" by Dr. M. Kaarthick, Dr. D. Maruthachalam, Dr. B. Mahalingam, Dr. R. Ranjith Kumar, Mr. Kannadasan.B and Dr K. Yogeswari Patent Application number: 202141008996 dated 03/03/2021. Published on 12.03.2021.

Dr. B. Mahalingam: Patent published detail: Patent applied and published on the topic titled "Improving the strength and reducing the cost of Rigid Concrete pavementby using silicafume as cementitous replacement and steel slag as fine aggregate repalcement" by Dr. T. Karhik prabhu,

Dr. P. Jagadesh, Dr. B. Mahalingam, Dr. Paul Makesh, Dr. K. Prasanna. and Dr M. Kaarthik Patent Application number: 202141016739 dated 09/04/2021. Published on 23.04.2021.

**e. Scholar related**

Dr. Rajkumar R attended the Fourth Extension and Synopsis Meeting of the research scholar A.A. Dhanraj- Research Scholar-Reg No:2014196103., in Sathyabama Institute of Science & Technology, Chennai on the 25th of August 2021 via Zoom Meeting

Dr. Rajkumar R attended the Comprehensive Meeting of the research Mr.J.Vanjinathan 2016796108., in SathyaBhama University, Chennai on the 16 th of August 2021 via Zoom Meeting

Dr. S. V. Sivapriya Attended the DC meeting of the scholar, "P. Lava Kumar Reddy" pursuing his Ph.D., programme under "SRM Institute of Science and Technology, Kattankulathur" on "04.10.2021" held via "Online platform"

Dr. P. Sangeetha has attended the DC meeting of the scholar, "CHALLA NITHIN KUMAR REDDY (D17CE003)" pursuing his Ph.D., programme under "Bharath University" on "20th Sep 2021" held via Online platform".

Dr. P. Sangeetha has attended the DC meeting of the scholar, "Suma Yarlagaadda (D17CE001)" pursuing her Ph.D., programme under "Bharath University" on "21st Sep 2021" held via Online platform".

Dr. Jijo James attended the Confirmation DC Meeting of the research scholar Mr. G. Landlin pursuing his Ph.D., in SRM Institute of Science and Technology, Kattankulathur, Chennai on the 26th of August 2021 via Zoom Meeting.

## Monthly Activities

## Faculty Activities

### f. Work Shop/Webinar attended

Dr. N. Sivakumar attended a webinar on "Advances in Pre-engineered students" on 12/6/2021.

Dr. N. Sivakumar attended a webinar on Sustainable Practices in Urban Sanitation on 31/5/2021.

Dr. N. Sivakumar attended a webinar on sharing session on PWD building construction handbook on 12/6/2021.

Dr. N. Sivakumar attended a webinar on ACC cement webinar " variability and factors affecting interpretation of concrete strength" on 12/6/2021.

Dr. N. Sivakumar attended a webinar on ACC cement webinar " onsite evaluation of concrete strength by CAPO test" on 19/6/2021.

Dr. N. Sivakumar attended an Online Webinar on 'Romancing with Concrete' held on 3<sup>rd</sup> July 2021, organized by Ultratech Cement Ltd.

Dr. N. Sivakumar attended an Online Webinar on 'Problems and new technologies for rigid pavements' held on 10th July 2021, organized by Ultratech Cement Ltd.

Dr. N. Sivakumar has participated in the online International Conference on "Sustainable Construction (ICSC 2021) organized by St. Peter's Institute of Higher Education & Research.

Dr. N. Sivakumar has participated in Future Concrete Technology organized by SSNCE on 07.09.21

Dr. N. Sivakumar has participated in Advanced Construction Materials and Structures organized by SSNCE on 09.09.21

Dr. N. Sivakumar has participated in Condition survey and NDT for RCC structures organized by UltraTech SSNCE on 18.09.21

Dr. N. Sivakumar has participated in General Safety Practices in Multi-storeyed building construction, organized by SSNCE on 20.09.21

## Monthly Activities

## Faculty Activities

Dr. N. Sivakumar has participated in Safety of Laborers-What and how we educate them organized by SSNCE on 20.09.21

Dr. N. Sivakumar has participated in webinar on Expenditures incurred to maintain safety in construction field organized by SSNCE on 24.09.21

Dr. N. Sivakumar has participated in Practical Tips for Safety in Construction site organized by SSNCE on 25.08.21

Dr. N. Sivakumar has participated in Quality assurance in cement industry for world class construction organized by UltraTech SSNCE on 28.08.21

Dr. N. Sivakumar has participated in Industry Expectations and facing interview organized by SSNCE on 24.08.21.

Dr. N. Sivakumar attended Webinar on "IS 14489-Principal Components In The Codal Provisions" organised by IEI SSN CE on 25/9/2021

Dr. N. Sivakumar attended an Ultratech webinar"working with high performing concrete on project" on 31/7/2021

Dr. N. Sivakumar attended anUltratech webinar"Best construction practices for ensuring durability" on 14/8/2021

Dr. N. Sivakumar attended anUltratech webinar"Health monitoring of concrete structures using NDT techniques" on 21/8/2021

Dr. N. Sivakumar attended anUltratech webinar" Use of new and innovative technologies for rapid and mass housing" on 24/7/2021

Dr. N. Sivakumar attended an Ultratech webinar" story of the bridge that could not be built" on 7/8/2021



## Monthly Activities

## Faculty Activities

Dr. N. Sivakumar attended an Ultratech webinar "working with high performing concrete on project" on 31/7/2021

Dr. N. Sivakumar attended an online webinar titled "Introduction to MS Project" organised by IEI student chapter IEI SSN CE student chapter on 18/8/2021.

Dr. N. Sivakumar attended the Panel discussion on "Precast execution challenges- Erection planning, Machinery & Methods" organised by Ultratech Cement Ltd on 30/10/2021.

Dr. N. Sivakumar attended an online webinar on "Glass as A Building Material" held on 16.11.2021 organised by ICI SSNCE and CCPS.

Dr. N. Sivakumar attended an online webinar on "Tale of two temples" organised by Ultratech Cement Ltd on 20.11.2021

Dr. Y. K. Sabapathy attended webinar Department of Civil Engineering in collaboration with SSN IGBC Student Chapter and SSN\_IIC is organizing a webinar on "Civil Engineers - Expectations from Industry Perspective" on 8th June 2021 at 2:30 PM.

Dr. Y. K. Sabapathy attended webinar Department of Civil Engineering in association with ICI Student Chapter is in the topic "Advances in Pre-Engineered Buildings" on 12th June 2021 (Saturday) between 10.30 am to 11.30 am.

Dr. Y. K. Sabapathy attended webinar Topic: \*Fire and Life Safety Measures\* conducted by SSN and Association of Civil Engineers (ACE) on Date: 12-06-2021 Time: 10.00 AM- 10.30 AM

Dr. Y. K. Sabapathy attended webinar "Foundation In Buildings For Field Engineers" conducted by Association Of Civil Engineers and Department Of Civil Engineering on 12-06-21

## Monthly Activities

## Faculty Activities

Dr. Y. K. Sabapathy attended webinar on "Sharing Session 8/16 on Foundation in Building for Field Engineers " on 12-06-21 by civil dept.

Dr. Y. K. Sabapathy attended webinar on “sharing session on PWD building construction handbook” organized by SSN-IGBC student chapter held on 12/06/2021 by civil dept.

Dr. Y. K. Sabapathy has participated One Day Workshop on the topic " Advanced Construction Materials and Structures" on 9th Sep 2021(Thursday) between 10.00 am to 11.30 am by Dr. N. Lakshmikandhan, Senior Scientist, SERC

Dr. Y. K. Sabapathy has attended Online webinar "Safety of-What and How We Educate Them" Organised by the student Chapter of the Institution of Engineers (India) on 22-09-2021.

Dr. Y. K. Sabapathy has attended Online webinar on “Necessary Safety Practices In Construction of Industrial Projects” Organised by IEI Institution of Engineers (India), Kalpakkam Local Center on 21-09-2021.

Dr. Y. K. Sabapathy has attended Online webinar “Nano technology & The Future of Thermal Insulation” Organised by the Institution of Civil Engineers (UK) SSN– Student Chapter on 24th Sept 2021.

Dr. Y. K. Sabapathy has attended Online Webinar on “Expenditures Incurred to Maintain Safety In Construction Site” Organised by the student Chapter of the Institution of Engineers (India) on 24-09-2021.

Dr. Y. K Sabapathy attended an onlinewebinar on "Practical Tips For Safety In Construction Site" organised by IE(I) Civil Engineering Student Chapter, Kancheepuram Local Center on 25-08-2021

Dr. R. Rajkumar attended webinar Department of Civil Engineering in collaboration with SSN IGBC Student Chapter and SSN\_IIC is organizing a webinar on "Civil Engineers - Expectations from Industry Perspective" on 8th June 2021 at 2:30 PM

Dr. R. Rajkumar attended a webinar on "Advances in Pre-engineered students" on 12/6/2021

## Monthly Activities

### Faculty Activities

Dr. Y. K Sabapathy attended an online webinar on "Industrial Expectations and Facing Interviews" Organised by IE(I) Civil Engineering Student Chapter, Kancheepuram Local Center on 24-08-2021.

Dr. Y. K Sabapathy attended anonline webinar on "Introduction to MS Project" organised by IE(I) Civil Engineering Student Chapter, Kancheepuram Local Center on 18-08-2021.

Dr. B. Mahalingam attended anonline Webinar on "An Overview of Software Application in Tunneling" held on 16.07.21 organized by Institute for Research, Development & Training of Construction Trades & Management(INSTRUCT) in Association with Nitte Meenakshi Institute of Technology(NMIT), Bengaluru

Dr. B. Mahalingam attended anonline Webinar on " GNSS Technology and its Application in Civil Engineering", held on 31.07.21 organized by CMTI and Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai

Dr. B. Mahalingam attended anonline Webinar on " Drilling and Automation in Tunnelling" held on 09.08.21 organized by Institute for Research, Development & Training of Construction Trades & Management(INSTRUCT) in Association with Nitte Meenakshi Institute of Technology(NMIT), Bengaluru

Dr. B. Mahalingam attended an online webinar on " Being Independent in Academic writing" organized by Pharma State Academy, Pitampura, New Delhi.

Dr. B. Mahalingam attended Workshop on ' Satellite Remote Sensing and GIS: Basci Concepts and Application' held on 30th May 2021 and 1st May 2021 organized by Dept. of Civil Engineering, Jaipur Engineering College and Researachcentre, Jaipur.

Dr. B. Mahalingam attended Online Webinar on "Alkali-Silica Reaction: Research Needs and the Link to Practice" held on 3rd June 2021, organized by International Union of Laboratories and Experts in Construction Materials, Systems and Structures, RILEM, France.

Dr. B. Mahalingam attended Online webinar on "Higher Education in India in the Post COVID-19" held on 5th June 2021, organized by SRM University, AP.

Dr. R. Rajkumar attended an online webinar titled "Introduction to MS Project" organised by IEI student chapter IEI SSN CE student chapter on 18/8/2021

## Monthly Activities

### Faculty Activities

Dr. B. Mahalingam attended Online Webinar on ' Fire and Life Safety Measure for Field Engineers' and 'Foundation in Building for Filed Engineers' held on 9th June 2021, organized by Dept. of Civil Engineering, Association of Civil Engineering (ACE), SSN College of Engineering, Chennai.

Dr. B. Mahalingam attended Online Webinar on "'Assessing research productivity and quality through citation analysis" with Professor Prem Vrat, AICTE Distinguished Chair Professor held on 10.06.2021, organized by Dept. of Electrical Engineering, SSNIC, SSN College of Engineering, Chennai.

Dr. B. Mahalingam attended Online Webinar on 'Project Delivery challenges - A Management Approach' by Er. P Surya Prakash held on 12th June 2021, organized by Association of Consulting Civil Engineers (ACCE), Hyderabad State centre, Hyderabad.

Dr. B. Mahalingam attended Online Webinar on 'The role of the infrastructure industry in achieving a net zero world - FIDIC Committee Webinar Series' held on 16th June 2021, organized by Global voice of Civil Engineers.

Dr. B. Mahalingam attended Online Webinar on 'Journal Citation Reports (JCR) Training & Certification Program 2021 - Part 2' held on 17th June 2021, Host: Brian Costello, organized by Clarivate.

Dr. B. Mahalingam attended Online Webinar on ' Measuring and Enhancing Employability of Graduates of Engineering and Management Programmes "with Professor Prem Vrat, AICTE Distinguished Chair Professor on 17.06.2021 organized by Dept. of Electrical Engineering, SSNIC, SSN College of Engineering, Chennai.

Dr. B. Mahalingam attended Online Webinar on 'Construction Schedule Management' held on 23rd June 2021, organized by SKILL-LYNC, Chennai

Dr. B. Mahalingam attended Online Webinar on 'Wind Energy-State of the art and future scope' held on 27th May 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai

Dr. R. Rajkumar attended an online webinar titled " Practical Tips For Safety In Construction Site" organised by IEI student chapter IEI SSN CE student chapter on 18/8/2021

## Monthly Activities

### Faculty Activities

Dr. B. Mahalingam attended an Online Webinar on 'Assessing research productivity and quality through citation analysis' with Professor Prem Vrat, AICTE Distinguished Chair Professor on 10.06.2021, organized by Dept. of Electrical Electronics Engineering and IIC, SSN College of Engineering, Chennai.

Dr. B. Mahalingam attended an Online Webinar on 'Measuring and Enhancing Employability of Graduates of Engineering and Management Programmes "with Professor Prem Vrat, AICTE Distinguished Chair Professor on 17.06.2021, organized by Dept. of Electrical Electronics Engineering and IIC, SSN College of Engineering, Chennai.

Dr. B. Mahalingam attended an Online Webinar on 'An overview of Software application for Tunnelling on 17.06.21, organized by INSTRUCT and NMIT, Bangalore.

Dr. B. Mahalingam completed Online webinar" sustainable practices in Urban Sanitation' held on 31st May 2021, Organized by Association of Consulting Civil Engineers, Department of Civil Engineering, SSN College of Engineering, Chennai.

Dr. B. Mahalingam Online Webinar on 'Foundation in Buildings for Field Engineers' held on 9th June 2021, organized by Association of civil engineers, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. B. Mahalingam Online Webinar on 'Foundation in Buildings for Field Engineers' held on 12th June 2021, organized by Association of civil engineers, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. B. Mahalingam attended Online Workshop on 'An Introduction to Remote Sensing' held on 23rd June 2021, organized by SKILL-LYNC, Chennai

Dr. B. Mahalingam Online Webinar on 'Retrofitting of Structures' held on 28th June 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. B. Mahalingam Online Webinar on 'Use of Innovative Materials for Concrete Applications' held on 31st May 2021, organized by ICI in association with IIT Madras.

## Monthly Activities

## Faculty Activities

Dr. B. Mahalingam attended an Online Webinar on 'TBM tunnel excavation in Metro Projects' held on 07th July 2021, organized by Dept. of Civil Engineering, Ramco Institute of Technology, Rajapalayam.

Dr. B. Mahalingam attended an Online Webinar on 'Recent trends in coordinate based survey technolog' held on 10th July 2021, organized by Dept. of Civil Engineering, Ramco Institute of Technology, Rajapalayam.

Dr. B. Mahalingam has participated in the online International Conference on "Sustainable Construction (ICSC 2021) organized by St. Peter's Institute of Higher Education & Research.

Dr. B. Mahalingam has participated in the online webinar on Global partnership for sustainable construction and resource efficiency organized by RILEM on July 17,2021.

Dr. B. Mahalingam has participated in the online webinar on Global partnership for sustainable construction and resource efficiency: Presentations and recordings organized by RILEM on July 22, 2021.

Dr. B. Mahalingam has participated in the online webinar an innovations product fit for market on July 15, 2021 organized by SSNCE.

Dr. B. Mahalingam Online Webinar on ' Recent innovations in steel structures' held on 28th August 2021, organized by Dept. of Civil Engineering, Eswari Engineering, Chennai.

Dr. B. Mahalingam Online Webinar on 'ACE Inaugural function' held on 26th August 2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. B. Mahalingam Online Webinar on 'International Webinar Series: Future of Concrete Technology ' held on 7th Sept 2021, organized by Dept. of Civil Engineering, ICI Student Chapter, SSN College of Engineering, Chennai.

Dr. B. Mahalingam Online Webinar on 'Prospective Research Aspects In Micro electro mechanical Systems (MEMS) ' held 09th Sept. 2021, organized by Dept. of Mechanical Engineering, Arjun College of Technology, Coimbatore.

## Monthly Activities

## Faculty Activities

Dr. B. Mahalingam Online Guest Lecture on 'Foundation design for Sensitive Structures and Tall Structures' held on 17th Sept. 2021 organized by Association of Consulting Civil Engineers, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. B. Mahalingam Workshop on 'Advanced Construction Materials and Structures ' held on 9th Sept. 2021 organized by Dept. of Civil Engineering, ICI Student Chapter, SSN College of Engineering, Chennai.

Dr. B. Mahalingam has participated in Virtual site visit of the Reinforcement works at an apartment complex held on 04.09.21 By HOD N. Sivakumar, event organized by ICI Student Chapter, Department of Civil Engineering, SSN College of Engineering, Chennai.

Dr. B. Mahalingam has attended Online webinar “Nano technology & The Future of Thermal Insulation” Organised by the Institution of Civil Engineers (UK) SSN– Student Chapter on 24th Sept 2021.

Dr. B. Mahalingam has attended online Webinar on 'GIS and Web Mapping Technology ' held on 30th September 2021, organized by Skill-Lync, Chennai.

Dr. B. Mahalingam has attended 36th National Convention of Civil Engineer's and National Conference on the theme "Innovations, Mechanization and Modern Techniques in Civil Engineering on 23rd and 24th October 2021 organized by Jharkhand State Centre, The Institution of Engineers (India) in Virtual mode.

Dr. P. Sreehari has attended online webinar on " Civil Engineers – Expectation from Industry Perspective" held on June 8th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110

Dr. P. Sreehari has attended online webinar on " Sharing Session on Foundation in Buildings for Field Engineers" held on June 12th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110

## Monthly Activities

## Faculty Activities

Dr. P. Sreehari has attended online webinar on 'Dredging and Reclamation- A Promising Industry & Career Choice ' held on June 09th, 2021 organized by Dr. N. G. P. Institute of technology, Dr. N.G.P. Kalapatti Road, Coimbatore-641 048.

Dr. P. Sreehari has attended online webinar on " Sharing Session on PWD Building Construction Handbook" held on June 12th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Dr. P. Sreehari has attended online webinar on " Advances in Pre - Engineered Buildings" held on June 12th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Dr. P. Sreehari has attended online webinar on " Sharing Session on Foundation in Buildings for Field Engineers" held on June 12th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Dr. P. Sreehari has attended online webinar on " Retrofitting of Structures" held on June 28th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110

Dr. P. Sreehari attended Online Webinar on 'Sustainable Practices in Urban Sanitation' held on 31st May 2021, organized by ASSOCIATION OF CIVIL ENGINEERS, SSN College of Engineering, Chennai.

Dr. R. Srinath attended anonline Webinar on "Introduction to MS Project" held on 18th August 2021 Organized by IE(I) Civil Engineering Student Chapter, Kancheepuram Local Center

Dr. R. Srinath attended Webinar on "Water and Wastewater Treatment Technologies" held on June 12, 2021, organized by Department of Civil Engineering, Dr. N.G.P. Institute of Technology, Coimbatore in association with Indian Water Works Association.



## Monthly Activities

## Faculty Activities

Dr. R. Srinath attended Webinar on "Climate Change Risk Management" held on June 11 2021, organized by IRM India.

Dr. R. Srinath attended Sharing Session on "Foundation in Building for Field Engineers" held on June 09 2021 organized by ACE, SSN College of Engineering.

Dr. R. Srinath attended Sharing session on "Guidelines on Fire and Life Safety Measures" held on June 09 2021 organized by ACE, SSN College of Engineering.

Dr. R. Srinath attended Webinar on "Retrofitting of Structures" held on 28 June 2021, organized by ICI Student Chapter, SSN College of Engineering.

Dr. R. Vijayalakshmi Online Webinar on 'Sustainable Practices in Urban Sanitation' held on 31st May 2021, organized by Association of civil engineers, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. R. Vijayalakshmi Online Webinar on 'Advances in Pre Engineered Buildings' held on 12th June 2021, organized by ICI chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. R. Vijayalakshmi Online Webinar on 'Civil Engineers – Expectation From Industry Perspective' held on 8th June 2021, organized by IGBC chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. R. Vijayalakshmi Online Webinar on 'Retrofitting of Structures' held on 28th June 2021, organized by ICI chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. R. Vijayalakshmi Online Webinar on 'Foundation in Buildings for Field Engineers' held on 12th June 2021, organized by Association of civil engineers, Dept. of Civil Engineering, SSN College of Engineering, Chennai

## Monthly Activities

## Faculty Activities

Dr. R. Vijayalakshmi Online Webinar on 'Foundation in Buildings for Field Engineers' held on 9th June 2021, organized by Association of civil engineers, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S. V. Sivapriya attended anonline Webinar on 'Quality assurance in cement industry for worl-class construction' held on 28th August 2021, organized by Ultra Tech, India.

Dr. S. V. Sivapriya attended anonline Webinar on 'Health monitoring of concrete structure through non- destructive testing technologies' held on 22th August 2021, organized by Ultra Tech, India.

Dr. S. V. Sivapriya attended anonline Webinar on 'Practical tips for safety in construction site' held on 25th August 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S. V. Sivapriya attended anonline Webinar on 'Practical tips for safety in construction site' held on 25th August 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S. V. Sivapriya atteneded “Panel Discussion on precast execution challenges – Erection Planning, Machinery and Methods” on “30.10.2021” organised by ICI – India.

Dr. S. V. Sivapriya atteneded “Tale of two temples” on “20.11.2021” organised by ICI – India.

Dr. S. V. Sivapriya atteneded “New building materials and technologies” on “23.11.2021” organised by IGBC – India.

Dr. S.V. Sivapriya atteneded “Glass as a building material” on “16.11.2021” organised by IGBC – India.

## Monthly Activities

## Faculty Activities

Dr. S.V. Sivapriya Online Webinar on 'Variability and factors affecting the interpretation of concrete strength' held on "12.06.2021" organized by "Ultra Tech, India".

Dr. S.V. Sivapriya Online Webinar on 'Concrete for energy efficiency and comfort in buildings' held on "26.06.2021" organized by "Ultra Tech, India".

Dr. S.V. Sivapriya Online Webinar on 'Advances in pre-engineered' held on "12.06.2021" organized by "ICI, Sri Sivasubramaniya Nadar Collège of Engineering, Chennai".

Dr. S.V. Sivapriya Online Webinar on 'Retrofitting of Structures' held on "28.06.2021" organized by "ICI, Sri Sivasubramaniya Nadar Collège of Engineering, Chennai".

Dr. S. V. Sivapriya has attended a webinar on " Problems and New Technologies for Rigid Pavements" organized by UltraTech on 10.07.21.

Dr. S. V. Sivapriya attended an online Webinar on 'Romancing with Concrete for a Better Tomorrow' held on 3rd July 2021, organized by UltraTech Cement Ltd.

Dr. S.V. Sivapriya has attended Online Webinar on 'Nano Technology and the future of thermal insulation' held on 24th September 2021, organized by ICE, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S.V. Sivapriya has attended Online Site - visit on 'Virtual site visit of the reinforcement works at an apartment complex' held on 4th September 2021, organized by ICI, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S.V. Sivapriya has attended Online webinar on 'Well foundation: Construction Practices' held on 4th September 2021, organized by Ultra Tech Cement, India.

Dr. S.V. Sivapriya has attended Online webinar on 'Causes of deterioration and durability of concrete' held on 11th September 2021, organized by Ultra Tech Cement, India.

## Monthly Activities

## Faculty Activities

Dr. S.V. Sivapriya has attended Online webinar on 'Condition survey and NDT for RCC structures' held on 18th September 2021, organized by Ultra Tech Cement, India.

Dr. S.V. Sivapriya has attended Online webinar on 'Materials and Methodology for repair/rehabilitation/ retrofitting of structures' held on 25th September 2021, organized by Ultra Tech Cement, India.

Dr. S.V. Sivapriya has attended Online Webinar on 'Safety of labours -what and how we educate them' held on 22th September 2021, organized by IEI, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S.V. Sivapriya has attended Online Webinar on 'Expenditures incurred to maintain safety in construction site' held on 24th September 2021, organized by IEI, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S.V. Sivapriya has attended Online Webinar on 'IS 14489 - Principal Components in the codal provisions' held on 25th September 2021, organized by IEI, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. S. V. Sivapriya has attended online Webinar on 'Learning from structural failures' held on 23rd October 2021, organized by Ultratech Cement, Chennai.

Dr. S. V. Sivapriya has attended online Webinar on 'Digitalization in construction industry' held on 9th October 2021, organized by Ultratech Cement, Chennai.

Dr. P. Sangeetha attended anonline Webinar on 'Story of the Bridge" That could not be Built" held on 7th Aug 2021, organized by UltraTech Cement Ltd.

Dr. P. Sangeetha attended anonline Webinar on 'Introduction to MS Project' held on 18th August 2021, organized by IE(I) Civil Engineering Student Chapter, SSN College of Engineering, Chennai.

## Monthly Activities

## Faculty Activities

Dr. P. Sangeetha Online Webinar on 'Sustainable Practices in Urban Sanitation' held on 31st May 2021, organized by Association of Civil Engineers, SSN College of Engineering, Chennai.

Dr. P. Sangeetha Online Webinar on 'Use of Innovative Materials for Concrete Applications' held on 31st May 2021, organized by ICI in association with IIT Madras,

Dr. P. Sangeetha Online Webinar on 'Samanjsya' held on 4th June 2021, organized by UltraTech Cement Ltd.

Dr. P. Sangeetha Online Webinar on 'Fibre reinforced-Self Compacting Concrete' held on 11th June 2021, organized by UltraTech Cement Ltd.

Dr. P. Sangeetha Online Webinar on 'Civil Engineers – Expectation From Industry Perspective ' held on 8<sup>TH</sup> JUNE 2021, organized by IGBC Student Chapter, SSN College of Engineering, Chennai.

Dr. P. Sangeetha Online Webinar on 'Sharing session on PWD building construction handbook' held on 12th June 2021, organized by IGBC Student Chapter, SSN College of Engineering, Chennai.

Dr. P. Sangeetha Online Webinar on 'Sharing session 5/16 on Guidelines for Fire and Life Safety Measure for Field Engineers' held on 9th June 2021, organized by Association of Civil Engineers, SSN College of Engineering, Chennai.

Dr. P. Sangeetha Online Webinar on 'Sharing session 8/16 on Foundation in Buildings for Field Engineers' held on 12th June 2021, organized by Association of Civil Engineers, SSN College of Engineering, Chennai

Dr. P. Sangeetha attended Online Webinar on 'Rainwater Harvesting' held on 2th July 2021, organized by Ultratech Chennai.

Dr. P. Sangeetha has attended an online Webinar on 'Green Building - Healthy Communities' held on 9th July 2021, organized by Ultratech Chennai.

## Monthly Activities

### Faculty Activities

Dr. P. Sangeetha has attended an online Webinar on 'Conservation and Management of Water Resources' held on 31st May 2021, Training & Outreach Research Group and Kottayam Sub-centre, Centre for Water Resources Development and Management (CWRDM), Kozhikode.

Dr. P. Sangeetha has attended Online Webinar on 'Industrial Expectations & Facing Interviews' held on 24th Aug 2021, organized by IE(I) Student Chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. P. Sangeetha has attended Online Webinar on 'Practical Tips For Safety In Construction Site' held on 25th Aug 2021, organized by IE(I) Student Chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. P. Sangeetha has attended Online Webinar on 'ACE INAUGURAL FUNCTION' held on 26th Aug 2021, organized by Association of Civil Engineering, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. P. Sangeetha has attended Online Webinar on 'General Safety Practices in Multi-storeyed Residential Construction' held on 20th Sep 2021, organized by IE(I) Student Chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. P. Sangeetha has attended Online Webinar on 'Necessary Safety Practices in Construction of Industrial Projects' held on 21st Aug 2021, organized by IE(I) Student Chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. P. Sangeetha has attended Online Guest Lecture on 'Foundation Design for Sensitive Structures and Tall Structures' held on 17th Sep 2021, organized by Association of Civil Engineering, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. P. Sangeetha has attended Online Webinar on 'Nano technology & The Future of Thermal Insulation' held on 24th Sep 2021, organized by the Institution of Civil Engineers (UK) SSN–Student Chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. P. Sangeetha has attended Online Webinar on 'IS 14489-Principal components in the codal provision' held on 25th Sep 2021, organized by IEI Student chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

## Monthly Activities

## Faculty Activities

Dr. P. Sangeetha has attended Online Webinar on ‘Expenditures Incurred to Maintain Safety in Construction Site’ held on 24th Sep 2021, organized by IEI Student chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. Jijo James attended an online webinar titled "The story of the Bridge that could not be built" on the 7th of August 2021 organized by UltraTech Cement

Dr. Jijo James attended an online webinar titled "Best Construction Practices for Ensuring Durability" on the 14th of August 2021 organized by UltraTech Cement.

Dr. Jijo James attended an online webinar titled "Introduction to MS Project" on the 18th of August 2021 organized by IEI Student Chapter, Department of Civil Engineering, SSN College of Engineering, Chennai.

Dr. Jijo James attended an online webinar titled "Health Monitoring of Concrete Structures through Non-Destructive Testing Technologies" on the 21st of August 2021 organized by UltraTech Cement.

Dr. Jijo James attended an online webinar titled "Practical Tips for Safety in Construction Site" on the 25th of August 2021 organized by IEI Student Chapter, Department of Civil Engineering, SSN College of Engineering, Chennai.

Dr. Jijo James attended an online webinar titled "Quality Assurance in Cement Industry for World Class Construction" on the 21st of August 2021 organized by UltraTech Cement.

Dr. Jijo James attended an online webinar titled "Sustainability and Inclusive Growth" as a part of ACE inaugural function on the 26th of August 2021 organized by ACE, Department of Civil Engineering, SSN College of Engineering, Chennai.

Dr. Jijo James attended an online webinar titled “Internal Curing of Concrete” on the 11<sup>th</sup> November 2021 organized by Qcrete Readymix India Pvt. Limited.

## Monthly Activities

### Faculty Activities

Dr. Jijo James attended a webinar titled “New Building Materials and Technologies” on the 23<sup>rd</sup> November 2021 organized by Department of Civil Engineering, SSN College of Engineering, Chennai.

Dr. Jijo James attended a webinar titled "Variability and Factors Affecting Interpretation of Concrete Strength" held on 12th June 2021, organized by Ultratech Cements.

Dr. Jijo James attended a webinar titled "Advances in Pre-Engineered Buildings" held on 12th June 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. Jijo James attended a webinar titled "Onsite Evaluation of Concrete Strength by CAPO Test" held on 19th June 2021, organized by Ultratech Cements.

Dr. Jijo James attended a webinar titled "Concrete for Energy Efficiency and Comfort in Buildings" held on 26th June 2021, organized by Ultratech Cements

Dr. Jijo James attended an online Webinar on 'Romancing with Concrete for a Better Tomorrow' held on 3rd July 2021, organized by UltraTech Cement Ltd.

Dr. Jijo James attended an online Webinar on 'Practical Difficulties of concreting in the Field' held on 3rd July 2021, organized by Qcrete Readymix India Pvt. Ltd.

Dr. Jijo James attended an online Webinar on 'Use of New and Innovative Technologies for Rapid Mass Housing' held on 24th July 2021, organized by UltraTech Cement Ltd.

Dr. Jijo James attended a Virtual site visit of ‘Reinforcement works at an apartment complex’ held on 4<sup>th</sup> September 2021, organized by Department of Civil Engineering, SSN College of Engineering under the banner of ICI Student Chapter.

Dr. Jijo James attended an online webinar on ‘Well Foundation: Construction Practices’ held on 4<sup>th</sup> September 2021, organized by Ultratech Cement.

Dr. Jijo James attended an online webinar on ‘Future of Concrete Technology’ held on 7<sup>th</sup> September 2021, organized by Department of Civil Engineering, SSN College of Engineering under the banner of ICI Student Chapter.



## Monthly Activities

## Faculty Activities

Dr. Jijo James attended an online workshop on 'Advanced Construction Materials and Structures' held on 9<sup>th</sup> September 2021, organized by Department of Civil Engineering, SSN College of Engineering under the banner of ICI Student Chapter.

Dr. Jijo James attended an online Indo-Chile workshop on 'Recent Advancements in Geotechnical Engineering' held between 7<sup>th</sup> and 9<sup>th</sup> September 2021, organized by SRKR Engineering College, Bhimavaram, IIT Roorkee and University of Chile, Chile.

Dr. Jijo James attended an online Guest Lecture on 'Foundation Design for Sensitive and Tall Structures' held on 17<sup>th</sup> September 2021, organized by Department of Civil Engineering, SSN College of Engineering under the banner of ACE.

Dr. Jijo James attended an online webinar on 'General Safety Practices in Multi-Storeyed Residential Construction' held on 20<sup>th</sup> September 2021, organized by Department of Civil Engineering, SSN College of Engineering under the banner of IEI Student Chapter.

Dr. Jijo James attended a webinar titled "Web of Science Conference Proceedings Selection Process" organized by Clarivate Analytics on 28<sup>th</sup> October 2021.

Dr. Jijo James attended a webinar titled "Specifications and Contract Provisions for Strengthening of Structures" on the 2<sup>nd</sup> of October organized by Ultratech Cement.

Dr. G. Aswin Sriram Online Webinar on 'sharing session on PWD building construction handbook' held on 12<sup>th</sup> June 2021, organized by SSN-IGBC student chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. G. Aswin Sriram Online Webinar on 'Advances In Pre-Engineered Buildings' held on 12<sup>th</sup> June 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. G. Aswin Sriram Online Webinar on 'Retrofitting of Structures' held on 28<sup>th</sup> June 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Dr. Surendar Natarajan Online Webinar on 'Advances in Pre-Engineered Buildings' held on 12<sup>th</sup> June 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

## Monthly Activities

## Faculty Activities

Dr. Surendar Natarajan attended a workshop on "Mathematical Foundations For Machine Learning and Data Science" held on 13th to 14th August 2021 Organized by Dept. of Information Technology, SSN College of Engineering, Chennai.

Dr. Surendar Natarajan Online Webinar on 'sharing session on PWD building construction handbook' held on 12th June 2021, organized by SSN-IGBC student chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai

Dr. Surendar Natarajan Online Webinar on 'Retrofitting of Structures' held on 28th June 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Ms. R. Sumetha webinar on 'Retrofitting of Structures' held on 28-06-2021, organized by ICI student chapter, Dept. of Civil Engineering, SSN College of Engineering, Chennai.

### **g. FDP**

Dr. N. Sivakumar attended Two weeks FDP on "Structural Assessment, Repair and Rehabilitation of Structures" organised by AICTE and SKCET from 24th May to 5th June 2021

Dr. N. Sivakumar attended an ATAL FDP on "NBA Accreditation Process" from 2021-06-28 to 2021-07-02 at JNTUA Ananthapuramu.

Dr. P. Sreehari has attended FDP on 'Thrust areas of Research in Civil Engineering'(Phase II) held on June 14-19 2021 Organised by Department of Civil Engineering, Dr.N.G.P. Institute of Technology.

Dr. P. Sreehari has attended online Faculty Development Program on 'Thrust Areas of Research in Civil Engineering' held on May 31st - June 04th, 2021 organized by Dr. N. G. P. Institute of technology, Dr. N.G.P. Kalapatti Road, Coimbatore-641 048.

Dr. B. Mahalingam attended anFDP on "Recent Advances in Concrete Technolgy and Sustainable Infrastructure" held from 4th - 6th Aug 2021, organized by Department of Civil Engineering, Sir C R Reddy College of Engineering, Eluru, West Godavari, Andhra Pradesh, India.

Dr. B. Mahalingam attended Training on 'Structural design using STADD PRO' held on 15th May 2021 to 30th May 2021 organized by National Small Services Industries Corporation LTD., NSIC Hyderabad.

## Monthly Activities

### Faculty Activities

Dr. B. Mahalingam attended an FDP on 'Repair, Rehabilitation & Retrofitting Techniques of Reinforced Concrete Structures.' Phase- III' held from 28th June 2021 to 3rd July 2021, organized by Dept. of Civil Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuramu, sponsored by AICTE.

Dr. B. Mahalingam has attended ATAL FDP on "Fundamentals of Geotechnical and Structural Engineering for Sustainable Infrastructural Development" held from 30.08.2021 to 03.09.21, organized by AICTE, New Delhi.

Dr. B. Mahalingam attended ATAL FDP on sustainable development through bamboos" held from 17th to 21st September 2019, organized by Dept. of civil engineering, Alamuri Ratanmala Institute of engineering and technology, Shahapur.

Dr. R. Srinath attended a Faculty Development Program on "Green Buildings & Built Environment" held during 02 – 06 August 2021 organized by CII-IGBC.

Dr. Sivapriya S V attended a one-week lecture series on “Recent Trends and Practices in Geo-Engineering” organized by CSIR-CBRI, Roorkee and University of Sydney, Australia from 15<sup>th</sup> to 19<sup>th</sup> November 2021.

Dr. S.V. Sivapriya attended Online Webinar on 'Emerging Technologies for Sustainable Environmental Management' held on "31.05.2021 - 04.06.2021" organized by "NIT, Calicut under AICTE Training and Learning Academy (ATAL), India".

Dr. S.V. Sivapriya Online Short Term Training Programme on 'Field Practices in Geotechnical Engineering' held between "14.06.2021 - 18.06.2021" organized by "SRMIST IGS Student Chapter, Chennai".

Dr. P. Sangeetha attended an ATAL FDP on 'Modern Trends in Civil Engineering & Construction Industry' held from 2nd to 6th August 2021, organized by Dept. of Civil Engineering, College of Engineering, Kidangoor.

Dr. P. Sangeetha FDP on 'Creative and Innovative Teaching Strategies for the New Normal' held from 24th to 31st May 2021, organized by Institution's Innovation Council of Sri Sivasubramaniya Nadar College of Engineering, Chennai

## Monthly Activities

## Faculty Activities

Dr. P. Sangeetha ATAL - FDP on 'Earthquake Resistant Structural Systems and Design for Buildings and Structures' held from 7th to 11st June 2021, organized by Sri Venkateswara College of Engineering, Chennai.

Dr. P. Sangeetha attended an ATAL - FDP on 'Earthquake Response and Vibration Control of Lifeline Structures' held from 5th to 9th July 2021, organized by College of Engineering Pune.

Dr. P. Sangeetha has attended ATAL FDP on 'WASTE MANAGEMENT PRACTICES FOR FUTURE INDIA' held from 13th to 17th September 2021, organized by University College of Engineering, Ramanathapuram.

Dr. Jijo James attended a one-week lecture series on “Recent Trends and Practices in Geo-Engineering” organized by CSIR-CBRI, Roorkee and University of Sydney, Australia from 15<sup>th</sup> to 19<sup>th</sup> November 2021.

Dr. Jijo James attended a short term training program on 'Field Practices in Geotechnical Engineering' held from 14th to 18th June 2021, organized by Dept. of Civil Engineering, SRM Institute of Science and Technology, Chennai.

Dr. Surendar Natarajan has participated participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on " Predictive Modelling Using Data-Science Techniques" from 06/09/2021 to 10/09/2021 at Indian Institute of Technology Guwahati.

Dr. Surendar Natarajan, has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Applications of Simulation Modeling in Water Resources Management" from 11/10/2021 to 15/10/2021 at Indian Institute of Technology Roorkee.

## Monthly Activities

## Faculty Activities

### **h. Events conducted**

Dr. N. Sivakumar and Dr. P. Sangeetha have organized "Learn yourself STAAD PRO" for second year students on 22.09.21.

Dr. B. Mahalingam and Dr. G. Aswin Sriram organized a webinar titled "Introduction to MS Project" delivered by "Bala Sakthivel, BIM Modeller and Trainer, Walflower designs and Engineers on 18.08.21 held at MS Teams platform for III and IV Year students under the banner of Department of Civil Engineering, IEI Student Chapter.

Dr. B. Mahalingam and Dr. G. Aswin Sriram organized a webinar titled "Industry expectations and facing interview" delivered by "Nagarajakumar Krishnaswamy, Principal -Manufacturing innovation Innomantra consulting Pvt.Ltd., on 24.08.21 held at MS Teams platform for III and IV Year students under the banner of Department of Civil Engineering, IEI Student Chapter.

Dr. B. Mahalingam and Dr. G. Aswin Sriram organized a webinar titled "Practical tips for safety in Construction site" delivered by Balasurendran Sivasubramaniam Project Director At Sobha Engineering & Contracting (UAE), on 25.08.21 held at Google meet platform for III and IV Year students under the banner of Department of Civil Engineering, IEI Student Chapter.

Dr. B. Mahalingam and Dr. Aswin Sriram G have Organized a guest lecture titled "General Safety Practices In Multi-Storeyed Residential Construction" delivered by "2018-2022 Batch final year student on "20.09.21" held at/via "Venue/Online platform" for "II,III and IV Year students" under the banner of "IEI Student Chapter"

Dr. B. Mahalingam and Dr. Aswin Sriram G Have Organized a guest lecture titled "Necessary Safety Practices in Construction of Industrial Projects" delivered by "2018-2022 Batch final year student on "21.09.21" held at/via "Venue/Online platform" for "II, III and IV Year students" under the banner of "IEI Student Chapter"

## Monthly Activities

### Faculty Activities

Dr. B. Mahalingam and Dr. Aswin Sriram G Have Organized a guest lecture titled "Safety of Labourers-What and How We Educate Them" delivered by " 2018-2022 Batch final year student on "22.09.21" held at/via "Venue/Online platform" for "II, III and IV Year students" under the banner of "IEI Student Chapter"

Dr. B. Mahalingam and Dr. Aswin Sriram G Have Organized a guest lecture titled "Expenditures Incurred to Maintain Safety in Construction Site" delivered by " 2018-2022 Batch final year student on "24.09.21" held at/via "Venue/Online platform" for "II, III and IV Year students" under the banner of "IEI Student Chapter"

Dr. B. Mahalingam and Dr. Aswin Sriram G Have Organized a guest lecture titled "IS 14489-Principal Components in The Codal Provisions " delivered by " 2018-2022 Batch final year student on "25.09.21" held at/via "Venue/Online platform" for "II, III and IV Year students" under the banner of "IEI Student Chapter"

Dr. Srinath R organized an online training session titled on "Glass as a Building Material" delivered by Mr. Kumar Ankur, Design Consultant- South and North India, Saint-Gobain on 16/11/2021 held via Google Meet for II- and III-year students under the banner of SSN IGBC Student Chapter.

Dr. Srinath R organized an online training session titled on "New Building Materials and Technologies Silicone Sealants and Adhesive" delivered by Mr. Ravishankar Subramanian, Manager - Technical Service & Development, DOW Chemicals on 23/11/2021 held via Google Meet for II- and III-year students under the banner of SSN IGBC Student Chapter

Dr. S.V. Sivapriya Organized a guest lecture titled " Guidance for Research grant" delivered by "Dr. K. Muthkkumar, Professor, NIT- Triruchirappalli" on "23.06.2021" held via "Online platform" for "Faculties" under the banner of "Association of Civil Engineers, Sri Sivasubramaniya Nadar College of Engineering, Chennai".

Dr. S.V. Sivapriya Organized a guest lecture titled " Fire and Life Safety Measures - Sharing Session" delivered by "Mr.S. Gunalan, Final Year Student, Sri Sivasubramaniya Nadar College of Engineering, Chennai" on "12.06.2021" held via "Online platform" for "2,3 and 4 year students" under the banner of "Association of Civil Engineers, Sri Sivasubramaniya Nadar College of Engineering, Chennai".

## Monthly Activities

## Faculty Activities

Dr. S.V. Sivapriya Organized a Talk Show titled "Kadhaipoma" on "12.06.2021" held via "Online platform" for "2,3 and 4 year students" under the banner of "Kraciva, Sri Sivasubramaniya Nadar College of Engineering, Chennai".

Dr. S. V. Sivapriya Organized "Online Quiz" on "15.09.2021" held via "Online platform" for "2, 3 and 4th Year of study of students" under the banner of "ACE"

Dr. S. V. Sivapriya organized a guest lecture along with inauguration of ACE by "Dr. Suresh.B, CEO and Managing Director of Mahindra Consulting Engineers Ltd., India" on "26.08.2021" held via "Online platform" for "3 and 4 students" under the banner of "Association of Civil Engineers".

Dr. P. Sangeetha Organized a Webinar "Advances in Pre-Engineered Buildings" delivered by "Er. MohammadRahmatulla, Senior DGM(Design), Pennar Industries" on "12th June 2021" under the banner of "ICI Student Chapter"

Dr. P. Sangeetha Organized a Webinar "Retrofitting of Structures" delivered by "Mr. RidhuvaranSarvana, Specification Consultant, HILTI" on "28th June 2021" under the banner of "ICI Student Chapter"

Dr. P. Sangeetha has Organized a Virtual site visit to "Reinforcement Works at an Apartment Complex" on "4th Sep 2021" for "second and third year students" under the banner of "ICI Student Chapter"

Dr. P. Sangeetha has Organized an online International Webinar Series on "Future of Concrete Technology" delivered by "Dr. Jegathish" on "7th Sep 2021" held via Online platform" for "Third and Second Year students" under the banner of "ICI Student Chapter"

Dr. P. Sangeetha has Organized one-day workshop on "Advanced Construction Materials and Technology" on "9th Sep 2021" held via Online platform" for "Third- and Second-Year students" under the banner of "ICI Student Chapter"

Dr. Jijo James organized an online webinar on 'Nanotechnology and the future of thermal insulation' held on 24<sup>th</sup> September 2021, organized by Department of Civil Engineering, SSN College of Engineering under the banner of ICE Student Chapter.

## Monthly Activities

## Faculty Activities

Dr. Jijo James organized an online webinar on 'Career prospects in Civil Engineering' held on 28<sup>th</sup> September 2021, organized by Department of Civil Engineering, SSN College of Engineering under the banner of ICE Student Chapter.

Dr. Surendar Natarajan and Dr. S. V. Sivapriya have organized one day Guest lecture on "Foundation Design for Sensitive Structures and Tall Structures" on 17 September 2021, organized at the Department of Civil Engineering, SSN College of Engineering.

### i. Industry Collaboration

Charanya S, Dinesh Kumar S and Vidhyaa K, Final year BE Civil Engineering students, under the coordination of Dr. N. Sivakumar Professor and Head, Civil Engineering have been selected to carry out their design project in collaboration with Capital Land, Chennai.

Abinaya Sakthi S, Rajkumar P, Vageesan U, Vel Kruthik G, Final year BE Civil Engineering students, under the coordination of Dr. N. Sivakumar Professor and Head, Civil Engineering have been selected to carry out their design project in collaboration with Mahindra Consulting Engineers Ltd., Chennai.

Nijanthan S, Sidharath K Shah, Naveen Kumar R, Mukesh Babu P, Final year BE Civil Engineering students, under the coordination of Dr. N. Sivakumar Professor and Head, Civil Engineering have been selected to carry out their design project in collaboration with Mahindra Consulting Engineers Ltd., Chennai.

Kishore P, Jyothir Adithya Skandan, Vikram P G and Grandhe Vishnu Prathap, Final year BE Civil Engineering students, under the coordination of Dr. N. Sivakumar Professor and Head, Civil Engineering have been selected to carry out their design project in collaboration with Zeus Project Consultants Pvt. Ltd., Chennai.

Rakshitha S, Sona M A, Sowmya Sri A S, Final year BE Civil Engineering students, under the coordination of Dr. N. Sivakumar Professor and Head, Civil Engineering have been selected to carry out their design project in collaboration with Larsen & Toubro, Chennai.

Charumathi V and Niveditha K S, Final year BE Civil Engineering students, under the coordination of Dr. N. Sivakumar Professor and Head, Civil Engineering have been selected to carry out their design project in collaboration with Larsen & Toubro, Chennai.

Santhosh Saravanan K and Shashankar V, Final year BE Civil Engineering students, under the coordination of Dr. N. Sivakumar Professor and Head, Civil Engineering have been selected to carry out their design project in collaboration with Larsen & Toubro, Chennai.



## Monthly Activities

## Faculty Activities

An MoU has been signed between the Department of Civil Engineering and Builders Association of India, Southern Chapter, Indiato bring collaboration in research, consultancy and placement between both the parties for a period of 5 years.

### **j. Other items**

Dr. N. Sivakumar reviewed one manuscript for Jordan Journal of Civil Engineering

Dr. N. Sivakumar reviewed one manuscript for Journal of Environmental Management published by Elsevier B.V

Dr. N. Sivakumar reviewed one manuscript for the journal Chemosphere published by Elsevier B.V.

Dr. N. Sivakumar reviewed one manuscript for the journal Construction and Building Materials published by Elsevier B.V.

Dr. N. Sivakumar reviewed a paper Analyze Effect of Maintenance and Rehabilitation on Flexible Pavement using HDM-4 Model," for International Journal of Sustainable Construction Engineering and Technology, Malaysia.

Dr. N. Sivakumar reviewed a paper "Utilization of Maize Cob and Rice Husk Ash in Manufacturing Paver Block Concrete for Low Traffic Areas," for International Journal of Sustainable Construction Engineering and Technology, Malaysia.

Dr. N. Sivakumar reviewed one manuscript for the International Journal of Sustainable Construction Engineering and Technology published by UTM, Malaysia.

Dr. N. Sivakumar reviewed one manuscript for the journal Construction and Building Materials published by Elsevier.

Dr. N. Sivakumar reviewed one manuscript for the Jordan Journal of Civil Engineering published by Jordan University of Science and Technology.

Dr. N. Sivakumar reviewed one manuscript for the journal Construction and Building Materials published by Elsevier.

## Monthly Activities

### Faculty Activities

Dr. N. Sivakumar conducted Meet my HOD #6 with students on 13/7/2021 to discuss on the career planning and doubt clearing with attendance from more than 45 students.

Dr. N. Sivakumar has conducted the orientation programme for second year students on 15.09.21 at 1.00 pm, venue second year class room, Civil Engg., dept.,

Dr. N. Sivakumar has reviewed a paper for journal of construction and building materials

Dr. N. Sivakumar has reviewed a paper for journal of construction and building materials

Dr. N. Sivakumar has given lecture titled "Learn yourself STAAD PRO" for second year students on 22.09.21.

Dr. B. Mahalingam completed Online Training course on 'Importance of water quality assessment in durability consideration for Hydro Power Projects' held on 27th May 2021 to 28th May 2021 organized by Central Soil and Materials Research Station, New Delhi.

Dr. B. Mahalingam completed Online course titled 'Panopto Basic and Pro training webinar' held on 29th June 2021 through Panopto by Kathryn Kelly, Manager, North America.

Dr. R. Rajkumar reviewed a manuscript for the journal Walailak Journal of Science and Technology (WJST). Thailand

Dr. R. Vijayalakshmi attended an Online course titled 'Excel fundamentals for data analysis' for a period of Four Weeks attended during July 2021, through Coursera.

Dr. R. Srinath attended National Conference on "ESRI India User Conference 2021 (UC)" Held on July 28 and July 29, 2021 organized by ESRI, India

Dr. S. V. Sivapriya carried out a consultancy work for Southern Railway, Madurai titled "Assessing the stability of the Railway Embankment Slope" for an amount of Rs. 50,000/-

Dr. S.V. Sivapriya Organized a chit-chat session delivered by "K. Dharanedharan" on "28.10.2021" held via "Online platform" for "2,3 and 4 Year of study of students" under the banner of "KRACIVA".

Dr. S. V. Sivapariya completed first level of consulting work for Green 201 Owners Welfare Association.

## Monthly Activities

## Faculty Activities

Dr. S.V. Sivapriya A Memorandum of Understanding is signed between CBRI-CSIR, IIT Roorkee and SSNCE, June 2021.

Dr. S.V. Sivapriya Reviewed "five abstracts" for the Conference "Eighth Young Indian Geotechnical Conference" Organised by "Indian Geotechnical Society - Chennai Chapter".

Dr. S.V. Sivapriya Framed a set of end semester question paper for Velammal Engineering College, Chennai.

Dr. S. V. Sivapriya attended an Online course titled 'Introduction to Data Analysis using Excel' for a period of Four Weeks attended during June - July 2021, through Coursera

Dr. S. V. Sivapriya reviewed one manuscripts for the journal 'SILICON' published by Springer.

Dr. S. V. Sivapriya has Reviewed two manuscripts for the journal 'Eighth Indian Young Geotechnical Engineers Conference 2021 - 8IYGEC 2021' organised by "Indian Geotechnical Society - Chennai Chapter.

Dr. S. V. Sivapriya has Reviewed "one" for the journal "International Journal of Hosing Markets and Analysis" published by "Emerald Publisher".

Dr. S. V. Sivapriya has Reviewed "one" for the journal "KSCE Journal of Civil Engineering" published by "Springer Publisher".

Dr. S. V. Sivapriya Organized a chit-chat session delivered by "Narenthiran, Nivedhitha, Pavithranathan, Rajkumar, Final year students " on "23.10.2021" held via "Online platform" for "2,3 and 4 Year of study of students" under the banner of "KRACIVA".

Dr. P. Sangeetha completed an Online Advanced Course titled ' Engineering of Precast Concrete Technology for Mass Housing attended during 5-6 May 2021.

## Monthly Activities

Dr. P. Sangeetha reviewed One manuscript for the journal 'Arabian Journal of Geosciences' published by Springer.

Dr. P. Sangeetha reviewed One manuscript for the journal 'Cogent Engineering' published by Taylor & Francis.

Dr. P. Sangeetha reviewed One manuscript for the journal 'Arabian Journal of Geo Sciences' published by Springer.

Dr.P. Sangeetha Online Lead Auditor Course on 'Environment Management System, Green Campus Audit, Energy Audit and Hygiene Audit' from 31st May to 04th June 2021 organized by the Nature Science Foundation, Coimbatore, Tamil Nadu, India.

Dr.P. Sangeetha Reviewed One manuscript for the journal 'Journal of Materials and Engineering Structures' published by MouloudMammeri University, Algeria.

Dr.P. Sangeetha Reviewed One manuscript for the journal 'International Journal of pavement Engineering' .

Dr. P. Sangeetha attended an Online course titled 'Applications in Engineering Mechanics' for a period of Five Weeks attended during July 2021, through Coursera.

Dr. P. Sangeetha reviewed one manuscript for International journal of Steel Structures published by Springer.

Dr. P. Sangeetha has Reviewed One manuscript for the journal 'Arabian Journal of Geosciences' published by Springer.

## Monthly Activities

## Faculty Activities

Dr. Jijo James reviewed one manuscript for the journal Construction and Building Materials published by Elsevier B.V.

Dr. Jijo James reviewed one manuscript for the journal Advances in Materials Science and Engineering published by Hindawi Publishing Corporation.

Dr. Jijo James reviewed on manuscript for the Journal of Rock Mechanics and Geotechnical Engineering published by Elsevier B.V.

Dr. Jijo James reviewed one manuscript for the journal Advances in Materials Science and Engineering published by Hindawi Publishing Corporation.

Dr. Jijo James reviewed four abstracts for the 8th Indian Young Geotechnical Engineers Conference to be held in September 2021 organized by Indian Geotechnical Society.

Dr. Jijo James reviewed a manuscript for the journal Advances in Materials Science and Engineering published by Hindawi Publishing Corporation.

Dr. Jijo James reviewed two manuscripts for the 8<sup>th</sup> Indian Young Geotechnical Engineers Conference to be organized by the Indian Geotechnical Society, Chennai in October 2021.

Dr. Jijo James reviewed two manuscripts for the biennial 8<sup>th</sup> Indian Young Geotechnical Engineers conference held between 21<sup>st</sup> and 23<sup>rd</sup> of October 2021, jointly organized by IIT Madras, Anna University and SRM Institute of Science and Technology and Indian Geotechnical Society, Chennai Chapter

## Monthly Activities

## Faculty Activities

Dr. Surendar Natarajan obtained the Life Membership of Indian Water Resources Society" LM2021-7911

Dr. Surendar Natarajan obtained Life time Membership from The Institution of Engineers (India) M-5777

Dr. Surendar Natarajan reviewed one manuscript for the Journal of Acta Geophysica published by Springer.

Dr. Surendar Natarajan Reviewed one manuscript for the journal 'Journal of Engineering and Technological Sciences' published by Institute for Research and Community Services, Institut Teknologi Bandung, in collaboration with Indonesian Engineering Association.

Dr. Surendar Natarajan reviewed Hydrological Modeling of Upper Sabarmati River Basin, Gujarat, India Using HEC-HMS Model'. in Journal of Engineering and Applied Science-springer.

Dr. Surendar Natarajan reviewed Assessing the Impacts of Climate Change on Surface Water Resources using WEAP model in Narok County, Kenya" discuss about climate change and its impact on water resources in Frontiers Journal – springer

Dr. Surendar Natarajan obtained Life time Membership from Indian Society of Remote Sensing L-5777

## Monthly Activities

## Faculty Activities

### Non-Teaching staff

#### **K JEGADHEESAN**

Attended Online Webinar on "Concrete for Energy Efficiency & comfort in building" held on 26th June 2020, organized by Ultratech Cements Ltd.

Attended Online Webinar on "Variability and factors affecting the interpretation of concrete strength" held on 12th June 2020, organized by Ultratech Cements Ltd.

Attended Online Webinar on "CIVIL ENGINEERS – Expectation From Industry Perspective" held on 08.06.2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on "Overview of Advances in Concrete" held on 12th June 2020, organized by Qcrete ReadyMix (India) Pvt Ltd.

Attended Online Webinar on " Foundation in Buildings for Field Engineers held on 12.06.2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on " Foundation in Buildings for Field Engineers held on 09.06.2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online course titled 'an introduction to plumbing ' for a attended during June 29th 2021, through Alison

Attended FDP on 'Two Weeks Professional Development Programme for Non Teaching Faculty on Skill Upgradation" held from 24th May to 4th June 2021, organized by Amet university.

Participated 2 weeks virtual Motivational Program on "Skill Development of Positive Thinking" organized by Department of Nautical Science, Amet University from 09-17 July 202

## Monthly Activities

## Faculty Activities

Participated in a webinar on " Rain Water Harvesting “organized by UltraTech on July 2nd, 2021

Participated in a webinar on " Problems and new Technologies for Rigid Pavements organized by UltraTech on July 10th, 2021

Participated in a webinar on " Green Building – Healthy Communities “organized by UltraTech on July 9th, 2021

Participated in a webinar on " Cement superplasticizers compatibility organized by UltraTech on July 17th, 2021

Participated in a webinar on " Practical difficulties of concreting in the field “ organized by Qcrete ReadyMix.India Pvt Ltd on July 3rd, 2021

Participated in a webinar on " Employment Opportunities for Diploma & Graduated Civil Engineering " organized by Dr. N. G. P. IT, Coimbatore on July 21st, 2021

Participated in a webinar on "Earthquake Resistant Structures" organized by Dr. N. G. P. IT, Coimbatore on June 30th, 2021

Attended Online Webinar on 'scope of plumbing design' held on 31st Aug 2021, organized by Dept. of Civil Engineering, Sri venkateshwara College of Engineering, Chennai



## Monthly Activities

## Faculty Activities

Attended Online Webinar on 'International Webinar Series: Future of Concrete Technology' held on 07 SEP 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on "General Safety Practice In Multi Storeyed Residential Construction" held on 20 SEP 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on "Necessary Safety Practice In Construction of Industrial Projects" held on 21 SEP 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on " Safety of Labourers What & Hoe We Educate Them"held on 22 SEP 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on " Expenditures Incurred to Maintain Safety In Construction Site"held on 24 SEP 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on " IS I4489-Principal Components In The Codal Provisions" held on 25 SEP 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai

## Monthly Activities

## Faculty Activities

Attended Online Webinar on " Foundation Design for Sensitive Structures and Tall Structures" held on 17 SEP 2021, organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on " Causes of Deteoriation and Durability of Concrete" held on SEP 11 2021, organized by Ultra Tech Cement Ltd

Attended Online Webinar on 'Materials & Methodology for Repair/ Rehabilitation /Retrofitting of Structure' held on SEP 25 2021, organized by Ultra Tech Cement Ltd

Attended Workshop on 'Advanced construction materials and structures ' held on 9th sep 2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Chennai.

Completed an online course titled " Diploma in Interior Design" organized by Alison during the month of October 2021.

Participated a webinar on " Digitalization in Construction Industry " organized by UltraTech on October 9th, 2021

Attended online Webinar on "Learning from Structural Failures" held on 23rd October 2021, organized by Ultratech Cement Ltd.

Attended Online Webinar on "Best Construction Practice for Ensuring Durability " held on 14th August 2021, organized by Ultratech Cement Ltd.

## Monthly Activities

## Faculty Activities

Attended Online Webinar on "Health Monitoring of Concrete Structures Through NDT Technologies " held on 21st August 2021, organized by Ultratech Cement Ltd.

Attended Online Course titled 'Speaking & Writing English Effectively', for a period of attended during 24 August 2021 of the course" through "ALISON"

Attended Online course titled 'Understanding Student Development and Diversity' for a period attended during Nov 20 2021, through ALISON

### **Kalatharan M**

Attended online webinar on "Sustainable Practices in Urban Sanitation"held on 31 May 2021, organized by Dept.of civil Engineering, SSN college of Engineering, chennai.

Attended online webinar on " Designing a Robust and Transparent Educational Process using Global Education Standard" held on 26th MAY ,2021 organized by ISDE Academy India Private Limited.

Attended online webinar on "Smart city Infrastructure" held on 26th MAY,2021organized by Dept.of civil Engineering, SRM TRP Engineering College.

Attended online webinar on "Sustainable concrete TO Make Durable Structures" held on 22.05.2021, organized by Dept.of civil Engineering, Dr. Mahalingam college of Engineering AND Technology, pollachi.

Attended online webinar on "Creating Major Maintenance Free RCC Bridges for India" held on JUN 5, 2021organized by Ultratech cement Ltd.

## Monthly Activities

## Faculty Activities

Attended online webinar on "Recent Developments in Fibre Reinforced concrete" held on JUNE 05, 2021 organized by Dept of civil Engineering, Dr.N.G.P. Institute of Technology, coimbatore.

Attended online webinar on "Understanding Structural Health in INDIA-A need" held on MAY 27, 2021 organized by Qcrete ReadyMix (India) Pvt Ltd

Attended online webinar on "From Ready Mix concrete(RMC)TO Ready Made Buildings (RMB)" held on MAY 29, 2021 organized by Ultratech cement Ltd.

Attended online webinar on "Health Monitoring of structures-Tandrust concrete" held on MAY 28, 2021 organized by Ultratech cement Ltd.

Attended online webinar on "Basics of Geopolymer concretes and their Applications" held on MAY 20, 2021 organized by Qcrete ReadyMix (India) Pvt Ltd

Attended Faculty Development programme on "Thrust Areas of Research in civil Engineering" held on May 31 TO June 04, 2021, organized by Dept. of civil Engineering, Dr.N.G.P. Institute of Technology, coimbatore.

Attended online Training course on "Two weeks' professional development programme for Non Teaching Faculty on skill upgradation" held on 24.05.2021to 04.06.2021, organized by Amet University, Chennai.

Attended online webinar on "Introduction TO STAAD PRO" held on 21&22 MAY 2021, organized by Dept of civil Engineering, SSN college of Engineering, chennai.

Attended online webinar on "Construction of Bahai House of Worship-Lotus Temple" held on MAY 22, 2021 organized by Ultratech cement Ltd.

## Monthly Activities

## Faculty Activities

Attended online webinar on "concrete -A 360-degree view from quality perspective in Maharashtra Metro" held on 24th MAY ,2021 Dept. of civil Engineering, SRM Institute of Science & Technology, chennai.

Attended a online webinar "Smart cities the challenges" organized by Akshaya College of Engineering & Technology, on 25th June 2021

Attended a online webinar " Samanjasya" organized by UltraTech on June 4, 2021

Participated a webinar on " A Promising Industry and Career Choice" organized by Dr. N. G. P. IT, Coimbatore on June 9, 2021

Participated a webinar on " Two-day webinar series" organized by Dr. Mahalingam college of Engg and Tech on June 2-3, 2021

Participated a webinar on " Advances in Pre-Engineered Buildings" organized by SSNCE on June 12, 2021

Participated a webinar on " Water and Waste Water Treatment Technologies" organized by Dr. N. G. P. IT, Coimbatore on June 12, 2021

Participated a webinar on "Variability and Factors affecting the Interpretation of Concrete Strength" organized by UltraTech on June 12, 2021

Participated a webinar on " Civil Engineers expectation from Industry perspective" organized by SSNCE on June 8, 2021

## Monthly Activities

## Faculty Activities

Participated a sharing session on PWD building construction hand book organized by SSNCE on June 12, 2021

Participated a webinar on " sharing session on 8/16 on foundation in building for field engineers organized by SSNCE on June 9, 2021

Participated a webinar on " sharing session on 5/16 on guidelines for fire and life safety measure for field engineers organized by SSNCE on June 9, 2021

Participated a webinar on " sharing session on 8/16 on foundation in building for field engineers organized by SSNCE on June 12, 2021

Participated a webinar on " on site evaluation of concrete strength by CAPO test organized by UltraTech on June 19, 2021

Participated 2 weeks virtual Motivational Program on "Skill Development of Positive Thinking" organized by Department of Nautical Science, AMET University from 09-17 July 2021

Attended online webinar on " Best construction practices for ensuring Durability" held on Aug 14, 2021 organized by UltraTech cement Ltd.

Attended online webinar on " Enterprenurship & Innovation" held on 11th August 2021, organized by Dept. of civil engg. sri sairam Engineering college, chennai.

Attended online webinar on " story of the bridge 'That could not be Built' held on Aug 7, 2021 organized by UltraTech cement Ltd.

## Monthly Activities

## Faculty Activities

Attended online webinar on " In -situ Testing of wire Ropes used in suspension Bridges and other installations" held on 30th July 2021, organized by dept. of civil engg. SRM Institute of science & Technology, chennai.

Attended online webinar on " science, Engineering and Rehabilitation of Heritage structures" held on July 31, 2021 organized by Qcrete ReadyMix (India) Pvt Ltd

Attended online webinar on " GNSS Technology and its Application in civil Engineering" held on 31.07.2021, organized by dept. of civil engg. SSNCE.

Attended online webinar on " working with High Performing concrete at Project" held on July 31, 2021 organized by UltraTech cement Ltd.

Attended online webinar on " Advanced satellite UAV image processing and Remote Sensing Techniques with sustainable Approaches" held on 30th July 2021, organized by dept. of civil engg. SRI Sairam Engineering college chennai.

Attended online webinar on " Geopolymers were used in pyramid construction? -A Scientific view" held on July 22, 2021 organized by Qcrete ReadyMix (India) Pvt Ltd.

Attended online webinar on " Use of new & innovative technologies for rapid mass housing" held on July 24, 2021 organized by UltraTech cement Ltd.

Attended online Workshop on" Advanced construction materials and structures" held on 09.09.2021, organized by dept. of civil engg. SSNCE.

Attended online webinar on" Employment opportunities for Diploma and Graduate civil Engineers" held on July 21, 2021 organized by dept. of civil engg. Dr. N.G.P. Institute of Technology, coimbatore.

Attended online webinar on" Education: Past, present and Future" held on July 10, 2021 organized by Qcrete ReadyMix (India) Pvt Ltd.

## Monthly Activities

## Faculty Activities

Attended online webinar on "Cement superplasticizers compatibility" held on July 17, 2021 organized by UltraTech cement Ltd.

Attended online webinar on " Life cycle assessment approach for sustainable practices in Engineering" held on 4th, September 2021, organized by Dept.of civil engg. Sairam Engineering college, chennai.

Attended online webinar on "Urban Green Buildings" held on sep 3, 2021 organized by UltraTech cement Ltd.

Attended online webinar on " Well Foundation: construction practices" held on sep 4, 2021, organized by UltraTech cement Ltd.

Attended online webinar on " Scope of plumbing Design for civil Engineers" held on 31.08.2021, organized by Dept.of civil engg. SVCE, chennai.

Attended online webinar on " Effect of corrosion in RCC structures" held on 28th August,2021 organized by Dept.of civil engg. Sairam Engineering college, chennai.

Attended online webinar on " Quality Assurance in cement Industry for World -class construction" held on Aug 28, 2021 organized by UltraTech cement Ltd.

Attended online webinar on " Mistakes in implementation of structural Designs" held on August 27, 2021 organized by Qcrete ReadyMix (India) Pvt Ltd.

Attended online webinar on " Industrial Expectations and facing interviews" held on 24.08.2021 organized by Dept.of civil engg. SSNCE.

Participated online on " ACE Inaugural Function" held on 26.08.2021 organized by Dept.of civil engg. SSNCE.



## Monthly Activities

## Faculty Activities

Attended online webinar on " Health Monitoring of concrete structures through Non- Destructive Testing Technologies" held on Aug 21, 2021 organized by UltraTech cement Ltd.

Attended online webinar on" Introduction to MS Project" held on 18.08.2021 organized by Dept.of civil engg. SSNCE.

Attended online webinar on" 20th Technocrats' Forum -vastu in built Environment - concept & Approach" held on Aug 13, 2021 organized by UltraTech cement Ltd.

Attended online webinar on" Practical tips for safety in construction site" held on 25.08.2021 organized by Dept.of Civil Engg., SSNCE.

Attended online webinar on "Earthquake Resistant structures" held on June 30, 2021 organized by Dept. of civil Engg. Dr. N.G.P. Institute of Technology, coimbatore.

Attended online webinar on " corrosion of steel reinforcement in concrete structures -causes and protection" held on 3rd July 2021, organized by Dept. of civil Engg. Aalim Muhammed salegh college of Engineering, chennai.

Attended online webinar on " The use of innovative Technologies in the construction industry" held on 13.07.2021, organized by Dept. of civil Engg. Ramco institute of Technology, Rajapalayam.

Attended online webinar on " Recent trends in coordinates based survey technology" held on 10.07.2021, organized by Dept. of civil Engg. Ramco Institute of Technology, Rajapalayam.

Attended online webinar on " Recent trends in civil Engineering" held on July 05 to July 10, 2021, organized by Dept. of civil Engg. Dr.N.G.P. Institute of Technology, coimbatore.

## Monthly Activities

## Faculty Activities

Attended online webinar on "Green buildings- Healthy communities" held on Jul 9, 2021 organized by UltraTech cement Ltd.

Attended online webinar on "Problems and New Technologies for Rigid Pavements" held on Jul 10, 2021 organized by UltraTech cement Ltd.

Attended online webinar on "Drone Technology in civil Engineering" held on 10th July 2021, organized by Dept. of civil Engg. Easwari Engineering college, chennai.

Attended online webinar on " Practical difficulties of concreting in the field" held on July 3, 2021 organized by Qcrete ReadyMix (India) Pvt Ltd.

Attended online webinar on " concrete for Energy Efficiency & comfort in Buildings" held on June 26, 2021 organized by UltraTech cement Ltd.

Attended online webinar on" Romancing with concrete for a better tomorrow" held on July 3, 2021 organized by UltraTech cement Ltd.

## PRASATH R

Attended Online Webinar on"Municipal Solid Waste Management in India held on Ist June 2021, organized by Dept.of Civil Engineering, Sri Venkateswara College of Engineering Pennalur Sriperumbudur.

Attended Online Webinar on Samanajsya held on 4th June 2021, organized by Ultratech Cement Ltd.

## Monthly Activities

## Faculty Activities

Attended Online Webinar on "Integrating Ecosystem into Sustainable Industrial Development: held on 5th June 2021, organized by Dept.of Civil & Environmental Engineering, Dr.S.&S.S. Ghandhy Government Engineering College, Surat.

Attended Online Webinar on " Recent Developments in Fibre Reinforced Concrete" held on 5th June 2021, organized by Dept.of Civil Engineering, Dr.N.G.P. Institute of Technology, Coimbatore 641 048.

Attended Online Webinar on "Electronic Distance Measurement" held on 5th June 2021, organized by Dept.of Civil Engineering, Karpagam Academy of Higher Education, Coimbatore - 641 021.

Attended Online Webinar on " Civil Engineers - Expectation from Industry Perspective" held on 8th June 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Kalavakkam, Chennai.

Attended Online Webinar on " Sharing Session 5/16 on Guidelines for Fire and Life Safety Measure for Field Engineers" held on 9th June 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Kalavakkam, Chennai.

Attended Online Webinar on " C Grade to CEO" A Civil Engineering Start up Story held on 9th June 2021, organized by Industry & Innovation Group and Dept. of Civil Engineering, St. Joseph Engineering College, Vamanjoor, Mangaluru - 575 028.

Attended Online Webinar on Fibre Reinforced - Self Compacting Concrete held on 11th June 2021, organized by Ultratech Cement Ltd.

Attended Online Webinar on " Employment opportunities and EARly Stage Entrepreneurs for Students held on 11th June 2021, organized by Dept. of Civil Engineering, NPR College of Engineering & Technology, Dindigul.

## Monthly Activities

## Faculty Activities

Attended Online Webinar on " Skill Upgradation for Non Teaching Staff held on 24.05.2021 to 04.06.2021 organized by Dept. of Electrical and Electronics Engineering, AMET University, Chennai. (10 Days)

Attended Online Webinar on " Design Concepts of Steel Structural Elements" held on 16th June .2021 organized by Dept. of Civil Engineering, P.S.R. Engineering College, Sivakasi, Virudhunagar.

Attended Online Webinar on " Digital Applicatins in Civil Engineering A Perspective" held on 17th June .2021 organized by Dept. of Civil Engineering, Karunya Deemed University,

Attended Online Webinar on "On-site Evaluation of Concrete Strength by CAPO test" held on 19th June .2021 organized by Ultratech Cement Limited.

Attended Online Webinar on " Retrofitting of Structures" held on 28th June .2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Kalavakkam, Chennai - 603 110.

Attended Online Webinar on " Advancement and Opportunities in Civil Engineering held on 07.06. 2021 to 11.06.2021 organized by Dept. of Civil Engineering, Dr. Mahalingam College of Engineering & Technology, Pollachi - 642 003. (5 Days)

Attended Online Webinar on " Variability and factors affecting the interpretation of Concrete Strength held on 12th June 2021, organized by Ultratech Cement Limited.

Attended Online Webinar on " Advances in Pre-Engineered Buildings held on 12.06.2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Kalavakkam, Chennai - 603 110.

Attended Online Webinar on " Sharing session on PWD building construction handbook" held on 12.06.2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Kalavakkam, Chennai - 603 110.

## Monthly Activities

### Faculty Activities

Attended Online Webinar on" Foundation in Buildings for Field Engineers" held on 12.06.2021 organized by Dept. of Civil Engineering, SSN College of Engineering, Kalavakkam, Chennai - 603 110.

Attended Online Webinar on" River Rejuvenation Challenges to Civil Engineers" held on 13.06.2021 organized by Dept. of Civil Engineering, Vivekananda Institute of Technology, Bengaluru - 560 074.

Attended Online Webinar on" Design Aspects of Tall Structures "held on 14th June .2021 organized by Dept. of Civil Engineering, P.S.R. Engineering College, Sivakasi, Virudhunagar.

Attended Online Webinar on"Good Practices in Home Construction” held on 12th June 2021, organized by Dept.of Civil Engineering, Sona College of Technology.

Attended Online Webinar on" Advanced Techniques for Crack Resistant Concrete” held on 3rd July 2021, organized by Dept.of Civil Engineering, Mohamed Sathak A.J. College of Engineering, Chennai - 603 103.

Attended Online Webinar on "Practical difficulties of Concreting in the field" held on 3rd July.2021 organized by Qcrete Readymix (India) Pvt.Ltd.

Attended Online Webinar on" Corrosion of Steel Reinforcement in Concrete Structures - Causes and Protection” held on 3rd July 2021, organized by Dept.of Civil Engineering, Aalim Muhammed Salegh College of Engineering, Chennai - 600 055.

Attended Online Webinar on" TBM Tunnel Excavation in Metro Projects” held on 7th July 2021, organized by Dept.of Civil Engineering, Ramco Institute of Technology, Rajapalayam - 626 117.

Attended Online Webinar on"Green Buildings - Heavy Communities" held on 9th July 2021 organized by Ultratech Cement Limited.

## Monthly Activities

## Faculty Activities

Attended Online Webinar on "Recent Trends in Civil Engineering" held on 5th July to 10th July 2021, organized by Dept.of Civil Engineering, Dr.N.G.P. Institute of Technology, Coimbatore - 641 048.

Attended Online Webinar on "Education: Past, Present and Future" held on 10th July.2021 organized by Qcrete Readymix (India) Pvt.Ltd.

Attended Online Webinar on "Recent Trends in Coordinates Based Survey Technology" held on 10th July 2021, organized by Dept.of Civil Engineering, Ramco Institute of Technology, Rajapalayam - 626 117.

Attended Online Webinar on "Drone Technology in Civil Engineering" held on 10th July 2021, organized by Dept.of Civil Engineering, Easwari Engineering College, Ramapuram, Chennai-600 089.

Attended Online Webinar on "Retention of Deep Excavations" held on 10th July 2021, organized by Dept.of Civil Engineering, RV College of Engineering.

Attended Online Webinar on "The Use of Innovative Technologies in the Construction Industry" held on 13th July 2021, organized by Dept.of Civil Engineering, Ramco Institute of Technology, Rajapalayam - 626 117

Attended 2 weeks Virtual Motivational Programme on "Skill DEvelopment on Positive Thinking" held on 9th July to 17th July 2021, organized by Dept.of Nautical Science, Academy of Maritime Education and Training (AMET) Chennai. (8 days)

## Monthly Activities

## Faculty Activities

Attended Online Webinar on "Cement Superplasticizers Compatibility" held on 17th July 2021 organized by Ultratech Cement Limited.

Attended Online Webinar on "Employment Opportunities for Diploma and Graduate Civil Engineers" held on 21st July 2021, organized by Dept.of Civil Engineering, Dr.N.G.P. Institute of Technology, Coimbatore - 641 048.

Attended Online Webinar on "Introduction to MS Project" held on 18th August 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online webinar on "Industrial Expectations and Facing Interviews" held on 24th August 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online webinar on "Practical tips for Safety in Construction Site" held on 25th August 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Participated in ACE Inaugural Function held on 26th August 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Attended online Webinar on Quality Assurance in Cement Industry for World-Class Construction held on 28th August 2021, organized by Ultratech Cement Ltd.

Attended Online webinar on "Effect of Corrosion in RCC Structures" held on 28th August 2021, organized by Dept.of Civil Engineering, Sri Sairam Engineering College, Chennai -44.

Attended Online webinar on "Scope of Plumbing Design for Civil Engineers" held on 31st August 2021, organized by Dept.of Civil Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, Chennai.

Attended Online webinar on "Artificial Intelligence in Constructin Industry" held on 3rd September 2021, organized by Dept.of Civil Engineering, Sona College of Technology, Salem.

## Monthly Activities

## Faculty Activities

Attended Online webinar on "Residential Building Design Using Sketch with Twinmotion" held on 3rd September 2021, organized by BTR Construction, Erode.

Attended online Webinar on "Well Foundation Construction Practices" held on 4th September 2021, organized by Ultratech Cement Ltd.

Attended International Workshop on "Recent Innovation in Steel Structures" held on 28th August 2021, organized by Dept. of Civil Engineering, Easwari Engineering College, Ramapuram, Chennai.

Attended Online Workshop on 'Advanced Construction Materials and Structures" held on 9th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Participated in Online Webinar on "Virtual site vist on the Reinforcement works at an apartment Complex" held on 4th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online webinar on "Life cycle Assessment Approach for Sustainable Practices in Engineering" held on 4thSeptember 2021, organized by Dept.of Civil Engineering, Sri Sairam Engineering College, Chennai -44.

Attended National webinar on " Forensic Geotechnical Engineering & Case Studies" held on 5th September 2021, organized by IGS Jabalpur Chapter & IGS Jabalpur Students Chapter, Jabalpur, Madhya Pradesh.

Attended Online webinar on "Energy Efficient Glasses" held on 7th September 2021 organized by IGBC Students Chapter, in Mahatma Education Societys, Pillai HOC College of Engineering and Technology, Rasayani.



## Monthly Activities

## Faculty Activities

Attended online Webinar on "Causes of Deterioration and Durability of Concrete" held on 11th September 2021, organized by Ultratech Cement Ltd.

Participated in Online Guest Lecture - Foundation Design for Sensitive Structures and Tall Structures" held on 17th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Guest Lecture"Foundation Design for sensitive structures and tall structures held on 17th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Participated in Online Webinar on"General Safety practices in Multistoreyed residential Construction" held on 20th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Participated in Online Webinar on"Necessary safety practices in construction of industrial projects" held on 21st September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Participated in Online Webinar on"Nano technology & The Future of Thermal Insulation" held on 24th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Participated in Online Webinar on"Expenditures incurred to maintain safety in construction site"held on 24th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Participated in Online Webinar on"IS-14489 Principal components in the codal provisions" held on 25th September 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

## Monthly Activities

## Faculty Activities

Participated in Online Webinar on "Carer prospects in Civil Engineering" held on 28th September 2021, organized by Dept.of Civil Engineering, Institution of Civil Engineers (UK), SSN College of Engineering, Chennai.

Attended online Webinar on "Specifications and Contract Provisions for Strengthening of Structures" held on 2nd October 2021, organized by Ultratech Cement Ltd.

Attended online Webinar on "Digitalization in Construction Industry" held on 9th October 2021, organized by Ultratech Cement Ltd.

Attended Online Workshop on 'Intellectual property rights (IPR) patents and designs" held on 8th October 2021, organized by Dept. of Civil Engineering, KDK College of Engineering, Nagpur.

Attended online Webinar on "Sustainable Development in Cement and Concrete" held on 16th October 2021, organized by Ultratech Cement Ltd.

Attended online Webinar on "Learning from Structural Failures" held on 23rd October 2021, organized by Ultratech Cement Ltd.

Attended online Webinar on "Reparis/Rehabilitation/Retrofitting of strutures" held on 25th October 2021, organized by Ultratech Cement Ltd

Attended Online Webinar on "Geopolymers were used in pyramid construction - A scientific view" held on 22nd July 2021, organized by QcreteReadymix (India) Pvt.Ltd.

Attended Online Webinar on "Smart Cities" held on 22nd July 2021, organized by Dept.of Civil Engineering, Jyothi Engineering College, Jyothi Hills, Vettikattiri Post, Cheruthuruthy.

## Monthly Activities

## Faculty Activities

Attended Online Webinar on "Recent Trends in Fibre Reinforced Concrete Technology" held on 23rd July 2021, organized by Dept.of Civil Engineering, Sri Sairam Engineering College, Chennai-44.

Attended Online Webinar on "Applications of Artificial Intelligence in Transportation Engineering" held on 23rd July 2021, organized by Dept.of Civil Engineering, Rashtreeya Vidyalaya College of Engineering

Attended Online Webinar on Use of New & Innovative Technologies for Rapid Mass Housing held on 24th July 2021 organized by Ultratech Cement Limited.

Attended on International Symposium on "Green Concrete Aggregates and Cementitious Materials" held on 24th July 2021 organized by Dept.of Civil Engineering, Pillai HOC College of Engineering and Technology, Rasayani.

Attended Online Webinar on "Recent Advances in Nano Composites" held on 24th July 2021, organized by Dept.of Civil Engineering, New Horizon College of Engineering, Bengaluru.

Attended Online Webinar on "Application of Software Tools in Civil Engineering" held on 28th July 2021, organized by Dept.of Civil Engineering, Sri Sairam Engineering College, Chennai-44.

Attended Online Webinar on "Science, Engineering and Rehabilitation of Heritage Structures" held on 31st July 2021, organized by QcreteReadymix (India) Pvt.Ltd.

## Monthly Activities

## Faculty Activities

Attended Online Webinar on "Working with High Performing Concrete at Project" held on 31st July 2021 organized by Ultratech Cement Limited.

Attended Two Days National Online Workshop on "Quantum GIS: Hands on Training: held on 28-29th July 2021, organized by Dept.of Civil Engineering, Mahatma Education Society's Pillai HOC College of Engineering &Technology, Rasayani, Raigad.

Attended Online Webinar GNSS Technology and its Application in Civil Engineering held on 31st July 2021, organized by Dept.of Civil Engineering, SSN College of Engineering, Chennai.

Attended Online Webinar on"Advanced Construction Materials and Techniques " held on 4th August 2021, organized by Dept.of Civil Engineering, Sri Sairam Engineering College, Chennai-44.

Attended Online Webinar on"Erection of High Rise Building" held on 5th August 2021, organized by Dept.of Civil Engineering, Paavai Engineering College, Namakkal - 637 018.

Attended Online Webinar on"Renewable and Non-Renewable Energy Conservation and Pollution Control" held on 6th August 2021, organized by Dept.of Civil Engineering, New Horizon College of Engineering, Bengaluru.

Attended Online Webinar on" Green Building Technologies-Amyth or Reality" held on 7th August 2021, organized by Dept.of Civil Engineering, Sri Sairam Engineering College, Chennai-44.

Attended Online Webinar on "Best construction practices for ensuring Durability" held on 14th August 2021 organized by Ultratech Cement Limited.

## Monthly Activities

## Faculty Activities

Attended Online Webinar on "Advanced satellite UAV image processing and remote sensing Techniques with Sustainable Approaches" held on 30th July 2021, organized by Dept. of Civil Engineering, Sri Sairam Engineering College, Chennai-44.

Attended online Webinar on Application of Civil Engineering Knowledge for the Development of Innovative Marine Structures” held on 19th November 2021, organized by Dept. of Civil Engineering, Dr.NGP Institute of Technology, Coimbatore.

Attended online Webinar on Tale of Two Temples held on 20th November 2021, organized by Ultratech Cement Ltd.

Attended Online Webinar on 'Tale of two temples' held on Nov 20 2021, organized by ultra tech cement ltd.

## **K. Anbazhagan**

Attended a webinar on Concrete for Energy Efficiency & comfort in Buildings organized by UltraTech ltd

Participated the Two weeks’ professional development programme for Non-Teaching faculty on Skill up gradation between 24.05.21 to 04.06.21 organized by AMIT University

Participated webinar on Water and Wastewater Treatment Technologies held June 12, 2021 organized by N G P Institute of Technology

Participated in the Professional Development Programme – Thrust Areas of Research in Civil Engineering during 31.05.21 to 04.06.21 organized by N G P Institute of Technology

## Monthly Activities

## Faculty Activities

Participated in the Sharing session on PWD Building Construction 6/16 held on 14.06.21 organized by SSN-CE

Participated in the sharing session on 8/16 Foundation in building for field engineers held on 12.06.21 organized by SSN-CE

Participated in the webinar on Retrofitting of structures held on 28.06.21 organized by SSN-CE

Participated in the webinar on Advances in Pre-Engineered Buildings held on 12.06.21 organized by SSN-CE

Participated in the webinar Design Methodology and case study in cantilevers held on 06.06.21 organized by SSN-CE

Participated in the webinar on Civil Engineers-Expectation from Industry Perspective held on 08.06.21 organized by SSN-CE

Participated in the webinar on Sharing session on PWD Building Construction handbook held on 12.06.21 organized by SSN-CE

Attended a webinar on Samanajsy organized by UltraTech ltd

Attended a webinar on Creating Major Maintenance Free RCC Bridges for India organized by UltraTech ltd

Attended a webinar on Variability and factors affecting the interpretation of Concrete Strength organized by UltraTech ltd

Participated a webinar on "Earthquake Resistant Structures " organized by Dr. N. G. P. IT, Coimbatore on 30.06.21

Attended a webinar on " Rainwater Harvesting" organized by UltraTech on 02.07.21

## Monthly Activities

## Faculty Activities

Attended a webinar on " Romancing with concrete for a better tomorrow" on 03.07.21

Participated a webinar on "Recent Trends in Civil Engineering " organized by Dr. N. G. P. IT, Coimbatore on 05-10.07.21

Participated a webinar on "Drone Technology in Civil Engineering " organized by Easwari Engineering College, Chennai on 10.07.21

Participated a webinar on "The use of Innovative Technologies in the Construction Industry " organized by Ramco Institute of Technology on 13.06.21

Attended a webinar on " Problems and New Technologies for Rigid Pavements" organized by UltraTech on 10.07.21

Attended a webinar on "Cement Superplasticizers Compatibility" organized by UltraTech on 17.07.21

Participated 2 weeks virtual Motivational Program on "Skill Development of Positive Thinking" organized by Department of Nautical Science, AMET University from 09-17 July 2021

Participated a webinar on "Employment Opportunities for Diploma and Graduate Civil Engineers" organized by Dr. N. G. P. IT, Coimbatore on July 21, 2021

Participated in the webinar on "Well Foundation: Construction Practices" Organized by SSNCE held on 04.09.2021

## Monthly Activities

## Faculty Activities

Participated in the webinar on "International Webinar Series: Future of Concrete Technology"  
Organized by SSNCE held on 07.09.2021

Participated in the webinar on " International Webinar Series: Advanced Constructions -Materials Today " Organized by SSNCE held on 09.09.2021

Participated in the webinar on "Online Guest Lecture - Foundation Design for Sensitive Structures and Tall Structures " Organized by SSNCE held on 17.09.2021

Participated in the webinar on "Condition Survey and NDT for RCC Structures" Organized by SSNCE UltraTech held on 18.09.2021

Participated in the webinar on "General Safety Practices in Multi-Storeyed Residential Construction" Organized by SSNCE held on 20.09.2021

Participated in the webinar on "Necessary Safety Practices in Construction of Industrial Projects"  
Organized by SSNCE held on 21.09.2021

Participated in the webinar on "Safety of Labourers - What and How we Educate Them"  
Organized by SSNCE held on 22.09.2021

Participated in the webinar on "Expenditures incurred to Maintain Safety in Construction Site"  
Organized by SSNCE held on 24.09.2021

Participated in the webinar on "Nano technology & The Future of Thermal Insulation" Organized by SSNCE held on 24.09.2021

Participated in the webinar on "Materials and Methodology for Repair/Rehabilitation/Retrofitting of Structures" Organized by UltraTech held on 25.09.2021

Participated in the webinar on "IS 14489 - Principal Components in teh Codal Provisions"  
Organized by SSNCE held on 25.09.2021



## Monthly Activities

## Faculty Activities

Participating in Online Webinar on "Career prospects in Civil Engineering" held on 28th September 2021, organized by Dept. of Civil Engineering, Institution of Civil Engineers (UK), SSN College of Engineering, Chennai.

Participated a webinar on " Digitalization in Construction Industry " organized by UltraTech on October 9th, 2021

Attended online webinar on “Health Monitoring of Concrete Structures through Non-Destructive Testing Technologies, on 21.08.21 organized by UltraTech Cement Ltd.,  
Attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

### **Jegan K**

Attended online webinar on 'Fibre Reinforced - Self Compacting Concrete held on June 11th, 2021 organized by UltraTech cement Ltd.

Attended online webinar on 'Concrete for Energy Efficiency & Comfort in Buildings' held on June 26th, 2021 organized by UltraTech cement Ltd.

Attended online webinar on 'Water & Wastewater Treatment Technologies' held on June 12th, 2021 organized by Dr. N. G. P. Institute of technology, Dr. N.G.P. Kalapatti Road, Coimbatore-641 048.

Attended online Two Weeks Professional development programme for Non Teaching Faculty on Skill Upgradation” between 24.05.2021 to 04.06.2021 organized by AMET Deemed to be University, Chennai

Attended online webinar on 'Variability and Factors affecting the interpretation of Concrete Strength' held on June 12th, 2021 organized by UltraTech cement Ltd.

## Monthly Activities

## Faculty Activities

Attended online webinar on " Retrofitting of Structures" held on June 28th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Jegan K has attended online webinar on " Civil Engineers – Expectation from Industry Perspective" held on June 8th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110

Attended online webinar on " Advances in Pre - Engineered Buildings" held on June 12th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam 603110.

Attended online webinar on " Climate Change Risk Management & The Education Sector" held on June 10th, 2021 organized by IRM India Affiliate.

Attended online webinar on " Sharing Session on PWD Building Construction Handbook" held on June 12th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on " Overview of Advances in Concretes " held on June 12th, 2021 organized by QcreteReadymix (India) Pvt Ltd

Attended online webinar on " Sharing Session on Foundation in Buildings for Field Engineers" held on June 12th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on " Sharing Session on Foundation in Buildings for Field Engineers" held on June 09th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended Online Webinar on" Corrosion of Steel Reinforcement in Concrete Structures - Causes and Protection” held on 3rd July 2021, organized by Dept.of Civil Engineering, AMS College of Engineering, Chennai - 600 055.

## Monthly Activities

## Faculty Activities

Attended a webinar on " Rainwater Harvesting" organized by UltraTech on 02.07.21

Civil/2021-22/NT/Oth/50: Attended a webinar on " Problems and New Technologies for Rigid Pavements" organized by UltraTech on 10.07.21

Participated a webinar on " Green Building – Healthy Communities “ organized by UltraTech on July 9th, 2021

Participated a webinar on " Cement superplasticizers compatibility organized by UltraTech on July 17th, 2021

Participated a webinar on " Employment Opportunities for Diploma and Graduated Civil Engineering " organized by Dr. N. G. P. IT, Coimbatore on July 21st, 2021

Attended Online Webinar on" The Use of Innovative Technologies in the Construction Industry" held on 13th July 2021, organized by Dept.of Civil Engineering, Ramco Institute of Technology, Rajapalayam - 626 117

Attended Online Webinar on" Recent Trends in Civil Engineering” held on 5th July to 10th July 2021, organized by Dept.of Civil Engineering, Dr.N.G.P. Institute of Technology, Coimbatore - 641 048.

Attended Online Webinar on" Drone Technology in Civil Engineering" held on 10th July 2021, organized by Dept.of Civil Engineering, Easwari Engineering College, Ramapuram, Chennai- 600 089.

## Monthly Activities

### Faculty Activities

Attended 2 weeks Virtual Motivational Programme on "Skill Development on Positive Thinking" held on 9th July to 17th July 2021, organized by Department of Nautical Science, Academy of Maritime Education and Training (AMET) Chennai.

Attended Online Webinar on " TBM Tunnel Excavation in Metro Projects" held on 7th July 2021, organized by Dept.of Civil Engineering, Ramco Institute of Technology, Rajapalayam - 626 117.

Attended Online Webinar on " Recent Trends in Coordinates Based Survey Technology" held on 10th July 2021, organized by Dept.of Civil Engineering, Ramco Institute of Technology, Rajapalayam - 626 117.

Attended Online Webinar on "Practical difficulties of Concreting in the field" held on 3rd July.2021 organized by Qcrete Readymix (India) Pvt.Ltd.

Participated a webinar on " Quality Assurance in Cement Industry for World - class Construction " organized by UltraTech on August 28th, 2021

Attended Online Webinar on " Effect of Corrosion in RCC Structures " organized by Department of Civil Engineering, Sri Sairam Engineering College, Chennai on 28th August, 2021.

Attended Online Webinar on "Mistakes in Implementation of Structural Designs" organized by Qcrete Readymix (India) Pvt.Ltd on August 27th, 2021

Attended Online Webinar on " Scope of Plumbing Design for Civil Engineers" organized by Department of Civil Engineering, Sri Venkateswara College of Engineering on August 31st, 2021

Participated a webinar on " Urban Green Buildings " organized by UltraTech on September 3rd, 2021

## Monthly Activities

### Faculty Activities

Participated a webinar on " Well Foundations: Construction Practices " organized by UltraTech on September 4th, 2021

Attended Online Webinar on " Life Cycle Assessment Approach for Sustainable Practices In Engineering" organized by Department of Civil Engineering, Sri Sairam Engineering College, Chennai on September 4th, 2021.

Attended online webinar on " Virtual Site Visit of the Reinforcement Works at an Apartment Complex" held on September 04th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on International Webinar Series: "Future of Concrete Technology " held on September 07th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "Advanced Construction Materials and Structures " held on September 09th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Participated a webinar on " Causes of Deterioration and Durability of Concrete " organized by UltraTech on September 11th, 2021

Participated a webinar on " Career Opportunities for Technocrats - Professional Valuers & Smart Solution for New Age Construction " organized by UltraTech on September 15th, 2021

Attended Online Webinar on " Decide My Future" organized by Department of Civil Engineering, Sri Sairam Engineering College, Chennai on September 13th, 2021.

Participated a webinar on " Condition Survey and NDT for RCC Structures " organized by UltraTech on September 18th, 2021

## Monthly Activities

### Faculty Activities

Attended online webinar on "Foundation Design for Sensitive Structures and Tall Structures" held on September 17th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "General Safety Practices in Multi-Storeyed Residential Construction" held on September 20th 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "Necessary Safety Practices in Construction of Industrial Projects" held on September 21st 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "Safety of Labourers-What and How We Educate Them" held on September 22nd 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "Expenditures Incurred to Maintain Safety In Construction Site" held on September 24th 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "Is 14489-Principal Components In The Codal Provisions" held on September 25th 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "Foundation Design for Sensitive Structures and Tall Structures" held on September 17th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on "Career prospects in Civil Engineering " held on September 28th 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

## Monthly Activities

## Faculty Activities

Participated a webinar on " Sustainable development in Cement and Concrete " organized by UltraTech on September 16th, 2021

Participated a webinar on " Materials and Methodology for Repair/ Rehabilitation/ Retrofitting of Structures " organized by UltraTech on September 25th, 2021

Attended Online Webinar on " Sustainable Concrete- Contributions from Readymix Industry" organized by Qcrete Readymix (India) Pvt.Ltd on September 23, 2021

Participated a webinar on " Specification and Contract Provisions for Strengthening of Structures " organized by UltraTech on October 2nd, 2021

Participated a webinar on " Digitalization in Construction Industry " organized by UltraTech on October 9th, 2021

Participated in a webinar on " Best Construction Practices for ensuring Durability" organized by UltraTech on August 14th, 2021

Participated in a webinar on " Story of the Bridge That could not be Built "organized by UltraTech on August 07th, 2021

Participated in a webinar on " Working with High Performing concrete at project " organized by UltraTech on July 31st, 2021

Participated in a webinar on " 20th Technocrats Forum - Vastu in Built Environment - Concept & Approach "organized by UltraTech on August 13th, 2021

## Monthly Activities

## Faculty Activities

Participated in a webinar on " Use of New & Innovative Technologies for Rapid Mass Housing " organized by UltraTech on July 24th, 2021

Attended Online Webinar on "Geopolymers were used in Pyramid construction? - A Scientific view" organized by Qcrete Readymix (India) Pvt.Ltdon July 22nd, 2021

Attended Online Webinar on "Science, Engineering and Rehabilitation of Heritage Structure " organized by Qcrete Readymix (India) Pvt.Ltdon July 31st, 2021

Attended Online Webinar on " In-situ Testing of Wire Ropes Used in Suspension Bridges and Other " organized by Department ofCivil Engineering, SRM Institute of Science & Technology. Ramapuram, Chennai on 30th July, 2021.

Attended online webinar on " GNSS Technology and its Application in Civil Engineering " held on July31st, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended Online Webinar on " Entrepreneurship and Innovation " organized by Department of Civil Engineering, Sri Sairam Engineering College, Chennai on 11th August, 2021.

Attended Online Webinar on " Advanced Satellite UAV Image Processing and Remote Sensing Techniques with Sustainable Approaches " organized by Department ofCivil Engineering, Sri Sairam Engineering College, Chennai on 30th July, 2021.



## Monthly Activities

## Faculty Activities

Attended online webinar on " Introduction to MS Project " held on August 18th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Participated in a webinar on " Health Monitoring of Concrete Structures through Non-Destructive Testing Technologies" organized by UltraTech on August 21st, 2021

Attended online webinar on " Industrial Expectations and Facing Interviews " held on August 24th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on " Practical Tips for Safety in Construction Site " held on August 25th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Attended online webinar on " ACE Inaugural Function " held on August 26th, 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

Participated a webinar on " Learning from Structural Failures " organized by UltraTech on October 23th, 2021

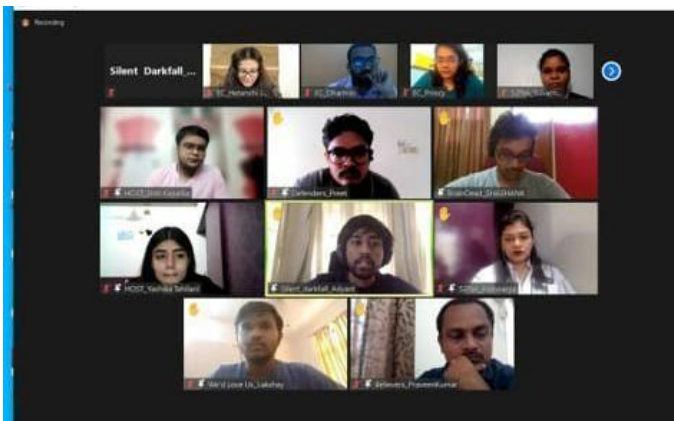
Participated a webinar on " Panel discussion on Precast Execution Challenges - Erection Planning, Machinery & Methods " organized by UltraTech on October 30th, 2021

Participated a webinar on " Tale of Two Temples " organized by UltraTech on November 20th, 2021

## Students Achievements

### How we won First Place in The Mind Mansion, A national level event conducted by Ahmedabad University

From 17<sup>th</sup> July 2021 to 18<sup>th</sup> July 2021 Magendra Kamalnath S A (Civil 2nd year), Adyant Srinivasan (ECE 2nd year), Nitesh M (Civil 2nd year) and Sailesh R (IT 2nd year) – Team “Silent Darkfall” had participated in a competition hosted by Ahmedabad university’s Entrepreneur’s club by registering through the Dare2Compete portal. The competition, “Mind Mansion” was a business oriented challenge which consisted of two rounds, round 1 had the participants read a case study related to Universal tribes expanding their business into culinary and break it down using the POEM analysis, points were marked for team coordination as well in this round. The second round was a group discussion on another case study which involved a Canadian company which customizes cosmetics, one participant from each team gave their views and suggestions about the study. The final scores were calculated from the points the teams got from both the rounds. Our college’s team bagged the first prize in this competition.



## Student Activities

### Student External Recognition Co-curricular

Pranav V S attended webinar on Seismic Strengthening of Concrete Structures using Response Control methods Narasaraopeta Engineering College (Autonomous) Narasaraopeta held on 5<sup>th</sup> June,2021.

Pranav V S attended webinar Design methodology and case study in cantilevers organized by CE-SSNCE on 06.06.21

Pranav V S attended webinar Advances in pre-engineered buildings organized by CE-SSNCE on 12.06.21

Pranav V S attended webinar Retrofitting of structures organized by CE-SSNCE on 28.06.21

Nitesh M has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Nitesh M has attended sharing session 8/16 Foundation in buildings for field Engineers held on 12.06.21 by CE-SSNCE

Nitesh M has attended webinar on Overview of Advances in concrete on 12.06.21 by Qcrete Ready Mix India Pvt ltd

Nitesh M has attended webinar on Advances in Pre Engineered Buildings held on 12.06.21 by CE-SSNCE

Nitesh M has attended webinar on AR and VR for civil Engineering Applications held on 12.06.21 by Sona College of Technology

Nitesh M has attended webinar on Design Methodology and Case study in Cantilevers held on 06.06.21 by CE-SSNCE

Nitesh M has attended webinar on Variability and factors affecting the interpretation of concrete strength held on 12.06.21 by UltraTech

## Student Activities

Nitesh M has attended webinar on Concrete for Energy Efficiency & Comfort in Buildings held on 26.06.21 by UltraTech

Nitesh M has attended webinar on Leadership Skills for Engineers held on 26.06.21 by Arasu Engineering College

Nitesh M has attended webinar on Creating Major Maintenance Free RCC Bridges for India held on 05.06.21 by Arasu Engineering College

Sathya Shree T R has attended webinar on Advances in Pre Engineered Buildings held on 12.06.21 by CE-SSNCE

Sathya Shree T R has attended webinar on Retrofitting of structures organized by CE-SSNCE held on 28.06.21 by CE-SSNCE

Junaid Showkat attended webinar on 'Environmental sustainability' organised by SES-RE Cell in association with NSS SVEC on 5th june 2021

Junaid Showkat attended webinar on 'seismic strengthening of concrete structures using response control method' organized by department of civil engineering, Narasaraopeta Engineering College on 5th june 2021

Junaid Showkat attended webinar on 'Project Management Fundamentals' organized by department of civil engineering, Nagpur Institute of Technology on 05-06-2021

Junaid Showkat attended webinar on 'Leadership Skills for Engineers' organized by department of mechanical and automobile engineering, Arasu Engineering College on 11-06-2021

Junaid Showkat attended webinar on 'ADVANCES IN PRE-ENGINEERED BUILDINGS' organized by SSN college of Engineering on 12-06-2021

Junaid Showkat attended webinar on 'C Grade to CEO'-'A Civil Engineering Startup Story' organized by industry and innovation group on 9 june 2021

Vishnu Balaji has undergone online training on Site supervision course completed on 30.05.21

## Student Activities

Vishnu Balaji successfully completed online training course on Design of steel structures on 25.06.21

G. Thosi has attended online Yoga training course in different schools in Yoga on 15.06.21

G. Thosi has attended online webinar on Retrofitting of Structures on 28.06.21 by SSN-CE

Vanaja MJ has participated in one-day national webinar on Seismic Strengthening of Concrete Structures using response control methods by Narasaraopeta Engineering College on 05.06.21

Vanaja MJ has participated in webinar on Design Methodology and case study in cantilevers organized by SSN-CE on 06.06.21

Vanaja MJ has participated in webinar on Advances in Pre-Engineered Buildings organized by SSN-CE on 12.06.21.

Vanaja MJ has participated in webinar on PWD Building Construction Handbook – 6/1 organized by SSN-CE on 19.05.21

Keerthana A has attended Webinar on "design methodology and case study in cantilevers" by "IE(I) Civil Engineering student chapter on "06-06-21"

Keerthana A has attended Webinar on "Webinar on "guidelines for fire and life safety measure for field engineers" by "SSN College of Engineering" on "9-06-21"

Keerthana A has attended Webinar on "C Grade to CEO" by "ST Joseph Engineering College" on "9-6-21"

Keerthana A has attended Webinar on "Foundation in buildings for field engineers" by "SSN College of Engineering" on "12-06-21"

## Student Activities

Keerthana A has attended Webinar on "sharing session on PWD building construction handbook" by "SSN-IGBC Student chapter" on "12-06-21"

Keerthanan A has attended a Webinar on "Overview of advances in concrete" by " Qcrete ReadyMix (India) Pvt Ltd" on "12-06-21"

Keerthana A has attended webinar on Retrofitting of Structures on 28.06.21 conducted by SSN-CE

Keerthana A has attended a webinar on Leadership skills for Engineers by Arasau Engineering College on 11.06.21

Keerthana A has attended webinar on Advances in Pre Engineered Buildings held on 12.06.21 by CE-SSNCE

Abishek Srinivas C has successfully completed online training course on Design of steel structures on 28.06.21

Ashwin Kumaran V has attended webinar on Retrofitting of Structures on 28.06.21 conducted by SSN-CE

Ashwin Kumaran V has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Keerthana A has attended Webinar on "sharing session on PWD building construction handbook" by "SSN-IGBC Student chapter" on "12-06-21"

Keerthana A has attended webinar on Advances in Pre Engineered Buildings held on 12.06.21 by CE-SSNCE

Ashwin Kumaran V has participated in the webinar on from ready mix concrete (RMC) to ready made Buildings (RMB) organized by Ultratech on May 29, 2021

Keerthana A has attended a webinar on Leadership skills for Engineers by Arasau Engineering College on 11.06.21

## Student Activities

Adarsh C has attended webinar on Seismic Strengthening of Concrete Structures using Response Control methods Narasaraopeta Engineering College (Autonomous) Narasaraopeta held on 5<sup>th</sup> June,2021.

Adarsh C has participated in the webinar on from ready mix concrete (RMC) to ready made Buildings (RMB) organized by Ultratech on May 29, 2021

R S Subiksha has successfully completed Autocad 2021 for beginners course on June 23, 2021 by Udeemy

R S Subiksha has attended on the webinar on Retrofitting of Structures held on 28.06.21 by SSN-CE

R S Subiksha has attended on the webinar on Sharing session 8/16 on foundation in buildings for field engineers held on 12.06.21 by SSN-CE

R S Subiksha has attended on the webinar on Different Schools of Yoga works held on 15.06.21 by SSN-CE

R S Subiksha has attended on the sharing session 5/16 on guidelines for fire and life safety measure for field engineers held on 09.06.21 by SSN-CE

R S Subiksha has attended on the webinar Advances in pre-engineered buildings held on 12.06.21 by SSN-CE

R S Subiksha has attended on the Leadership skills for engineers held on 11.06.21 by SSN-CE

Sujitha Shrini G has participated in the Quiz event Quizzles on the topic Season your Civil Skills on 30.06.21 by Sai Ram Engineering College

Sujitha Shrini G has completed on line course on Mechanics of Materials III Beam Bending by Coursera

## Student Activities

Lavanya Jayakumar has participated in the webinar on IQAC cell Initiative, Nagpur Institute of Technology Nagpur held on 5.6.21 by Nagpur Institute of TEchnology

Lavanya Jayakumar has participated in the webinar on Design Methodology and case study in cantilevers held on 6.6.21 by SSN-CE

Lavanya Jayakumar has participated in the webinar on Leadership Skills for Engineers held on 11.6.21 by Arasu Engineering College

Lavanya Jayakumar has participated in the webinar on Advances in Pre-Engineered Buildings held on 12.6.21 by SSN-CE

Lavanya Jayakumar has participated in the webinar on C Grade to CEO- A Civil Engineer stand up story held on 9.6.21 by St Joseph College of Engineering

Lavanya Jayakumar has participated in the webinar on Retrofitting of structures held on 28.6.21 by SSN-CE

Kesavan J has successfully completed Design of steel structures as per IS 800 online course on June 27, 2021 by Udemy

Gokul S has participated in Quizz event on the topic Season your civil skills organized by Sai Ram Engineering College on 30.06.21

Gokul S has participated in the webinar on Creating Major Maintenance free RCC bridges for India on 05.06.21 by UltraTech

Gokul S has participated in the webinar on Advances in Pre-Engineered Buildings held on 12.6.21 by SSN-CE

Gokul S has participated in the webinar on Variability and factors affecting the interpretation of concrete strength by UltraTech on 12.06.21



## Student Activities

Gokul S has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Gokul S has participated in the webinar on Concrete for Energy Efficiency & Comfort in Buildings by UltraTech on 26.06.21

Yashika M has successfully completed Autocad 2021 for beginners course on June 25, 2021 by Udemey

Yashika M attended webinar on Seismic Strengthening of Concrete Structures using Response Control methods Narasaraopeta Engineering College (Autonomous) Narasaraopeta held on 5<sup>th</sup> June,2021.

Yashika M attended webinar Design methodology and case study in cantilevers organized by CE-SSNCE on 06.06.21

Yashika M has attended webinar on Leadership Skills for Engineers held on 26.06.21 by Arasu Engineering College

Yashika M attended webinar Advances in pre-engineered buildings organized by CE-SSNCE on 12.06.21

Yashika M attended webinar on 'C GRADE TO CEO'-'A CIVIL ENGINEERING STARTUP STORY' organized by industry and innovation group on 9 june 2021

Yashika M has attended sharing session 5/16 Guidelines for Fire and Life safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Yashika M has attended sharing session 8/16 Foundation in buildings for field Engineers held on 12.06.21 by CE-SSNCE

Yashika M attended webinar Retrofitting of structures organized by CE-SSNCE on 28.06.21

## Student Activities

Ashwin M C has attended webinar on Creating Major Maintenance Free RCC Bridges for India held on 05.06.21 by Arasu Engineering College

Ashwin M C has attended online workshop on Wetland conservation and effective water conservation systems organized by VITM Gwalior on 05.06.21

Ashwin M C has attended webinar on Building by-laws regulation and procedures for plan approval organized by CMTI, Bengaluru on 11.06.21

Ashwin M C has attended webinar on New generation concrete organized by Dr. D Y Patil Institute of Technology, Pune on 27-28.05.21

Ashwin M C has attended webinar on Concrete for Energy Efficiency & Comfort in Buildings held on 26.06.21 by UltraTech

Ashwin M C attended webinar Advances in pre-engineered buildings organized by CE-SSNCE on 12.06.21

Ashwin M C has attended Webinar on "Webinar on "guidelines for fire and life safety measure for field engineers" by "SSN College of Engineering" on "9-06-21

Bharathi M has attended webinar on Design Methodology and Case study in Cantilevers held on 06.06.21 by CE-SSNCE

Sonika M successfully completed online training course on Design of steel structures on 25.06.21

Sonika M completed an online quiz on Civil Engineering conducted by Dr. NGP institute of technology, Coimbatore on 21-26 June 2021.

Sonika M has attended Webinar on "sharing session on PWD building construction handbook" by "SSN-IGBC Student chapter" on "12-06-21"

## Student Activities

Sonika M attended webinar Advances in pre-engineered buildings organized by CE-SSNCE on 12.06.21

Sonika M attended webinar Engineering your Career organized by CMTI, Bengaluru on 18.06.21

Krishnasampath S has participated in the webinar on from ready mix concrete (RMC) to ready made Buildings (RMB) organized by Ultratech on May 29, 2021

Krishnasampath S has attended webinar on Leadership Skills for Engineers held on 26.06.21 by Arasu Engineering College

Krishnasampath S has attended webinar on Retrofitting of structures organized by CE-SSNCE held on 28.06.21 by CE-SSNCE

Krishnasampath S has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Krishnasampath S attended webinar on Seismic Strengthening of Concrete Structures using Response Control methods Narasaraopeta Engineering College (Autonomous) Narasaraopeta held on 5<sup>th</sup> June,2021.

Shaista Ali has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Shaista Ali has attended webinar on Retrofitting of structures organized by CE-SSNCE held on 28.06.21 by CE-SSNCE

Shaista Ali has attended sharing session 8/16 Foundation in buildings for field Engineers held on 12.06.21 by CE-SSNCE

Shaista Ali has attended webinar on Leadership Skills for Engineers held on 26.06.21 by Arasu Engineering College

## Student Activities

Shaista Ali attended webinar Design methodology and case study in cantilevers organized by CE-SSNCE on 06.06.21

Shaista Ali attended webinar on 'Project Management Fundamentals' organized by department of civil engineering, Nagpur Institute of Technology on 05-06-2021

Shaista Ali attended webinar on Seismic Strengthening of Concrete Structures using Response Control methods Narasaraopeta Engineering College (Autonomous) Narasaraopeta held on 5<sup>th</sup> June,2021.

Shaista Ali attended webnar on 'Environmental sustainability' organised by SES-RE Cell in association with NSS SVEC on 5th june 2021

Sharanya V attended webnar on 'Environmental sustainability' organised by SES-RE Cell in association with NSS SVEC on 5th june 2021

Sharanya V has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Sharanya V has attended sharing session 8/16 Foundation in buildings for field Engineers held on 12.06.21 by CE-SSNCE

Sharanya V has attended webinar on Retrofitting of structures organized by CE-SSNCE held on 28.06.21 by CE-SSNCE

Sharanya V attended webinar on 'Advances in Pre-Engineered Buildings' organized by SSN college of Engineering on 12-06-2021

Sharanya V attended webinar on Seismic Strengthening of Concrete Structures using Response Control methods Narasaraopeta Engineering College (Autonomous) Narasaraopeta held on 5<sup>th</sup> June,2021.

Sharanya V attended webinar on 'Project Management Fundamentals' organized by department of civil engineering, Nagpur Institute of Technology on 05-06-2021

## Student Activities

Sharanya V has attended webinar on Leadership Skills for Engineers held on 26.06.21 by Arasu Engineering College

Krishna Sree A has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Krishna Sree A attended webinar on 'Advances in Pre-Engineered Buildings' organized by SSN college of Engineering on 12-06-2021

Krishna Sree A attended webinar on 'seismic strengthening of concrete structures using response control method' organized by department of civil engineering, Narasaraopeta Engineering College on 5th june 2021

Krishna Sree A has participated in the webinar on IQAC cell Initiative, Nagpur Institute of Technology Nagpur held on 5.6.21 by Nagpur Institute of Technology

Krishna Sree A attended webinar on 'C GRADE TO CEO'- 'A CIVIL ENGINEERING STARTUP STORY' organized by industry and innovation group on 9 june 2021

Krishna Sree A attended webinar on 'Environmental sustainability' organised by SES-RE Cell in association with NSS SVEC on 5th june 2021

Krishna Sree A has attended webinar on Design Methodology and Case study in Cantilevers held on 06.06.21 by CE-SSNCE

Krishna Sree A has attended webinar on Leadership Skills for Engineers held on 26.06.21 by Arasu Engineering College

Karan K has attended sharing session 5/16 Guidelines for Fire and Life Safety Measure for Field Engineers held on 09.06.21 by CE-SSNCE

Karan K has attended sharing session 8/16 Foundation in buildings for field Engineers held on 12.06.21 by CE-SSNCE

## Student Activities

Karan K has attended webinar on Leadership Skills for Engineers held on 26.06.21 by Arasu Engineering College

Karan K has participated in one-day national webinar on Seismic Strengthening of Concrete Structures using response control methods by Narasaraopeta Engineering College on 05.06.21

Karan K has attended webinar on Retrofitting of structures organized by CE-SSNCE held on 28.06.21 by CE-SSNCE

Mahendra Kamalnath S A has participated one-day workshop on Concrete Mix Design CMD organized by KDK college of Engineering, Nagpur on 04.06.21

Mahendra Kamalnath S A has attended webinar on AR and VR for civil Engineering Applications held on 12.06.21 by Sona College of Technology

Mahendra Kamalnath S A has participated in the webinar on cognitive and personal dimensions of cyber learning on 07.06.21

Mahendra Kamalnath S A has participated in the webinar on cognitive and personal dimensions of composite materials in space applications and collaborative robotic inspections by Arasu Engineering College on 03.06.21

Mahendra Kamalnath S A has participated in the webinar Introduction to Industry 4.0 & Industrial IoT by Arasu Engineering College on 04.06.21

Mahendra Kamalnath S A has participated in the webinar on Nano Mechanical Theory and applicaitons by Arasu Engineering College on 08.06.21

Mahendra Kamalnath S A has participated in the webinar Disaster Management and Risk deduction on 21.06.21 Dr. Ashok Gujar Technical Institution

Mahendra Kamalnath S A has completed five tasks by Ministry of Youth affairs and Unicef College on 20.06.21

## Student Activities

Mahendra Kamalnath S A has participated Webinar on "environmental consciousness and covid-19 pandemic" by NSS Dr.B.R. Ambedkar University, Agra on 5.06.2021

Mahendra Kamalnath S A has participated Webinar on "effective communication for organisation's excellence" by Arasu Engineering College on 11.06.2021

Mahendra Kamalnath S A has participated Webinar on "leadership skills for engineers" by Arasu Engineering college on 11.06.2021

Mahendra Kamalnath S A has participated Webinar on "latest trends in Data Science Industry projects" by K.I. T's College of Engineering, Kolhapur on 20.06.2021

Mahendra Kamalnath S A has participated Webinar on "retrofitting of structures" by SSN College of Engineering on 28.06.2021

Mahendra Kamalnath S A has participated Webinar on "HAMARA TEJAS"- India's own 4th Gen Fighter” by Dr. Ambedkar institute of technology on 24.06.2021

Mahendra Kamalnath S A has participated Webinar on "advances in pre-engineered buildings" by SSN College of Engineering on 12.06.2021

Mahendra Kamalnath S A has participated Webinar on “sharing session on PWD building construction handbook” organized by SSN-IGBC student chapter held on 12/06/2021

Mahendra Kamalnath S A has participated Webinar on "Seismic Strengthening of Concrete Structures using Response Control methods” by Narasaraopeta Engineering College, Narasaraopeta held on 5th June,2021.

Mahendra Kamalnath S A has participated Sharing Session 5/16 on Guidelines for Fire and Life Safety Measure for Field Engineers" by SSN College of Engineering held on 09.06.2021

Mahendra Kamalnath S A has participated Sharing Session 8/16 on Foundation in Buildings for Field Engineers by SSN College of Engineering held on 12.06.2021.

## Student Activities

Mahendra Kamalnath S A has participated Webinar on ready mix concrete to ready made buildings by ultra tech cement on 29.05.2021

Mahendra Kamalnath S A has participated Webinar on creating maintenance free RCC bridges for India by Ultratech cement on 5.06.2021

Mahendra Kamalnath S A has participated Webinar on immediacy at the intersection of physical and mental health during the 2nd wave of covid-19 by Lingaraj College, Belagavi on 2.06.2021

Mahendra Kamalnath S A has participated Webinar on “Professionals in Civil Engineering need to know a bit of Metallurgy” by M. S. Patel Department of Civil Engineering, CSPIT, CHARUSAT Under the aegis of Indian Concrete Institute (ICI) Students Chapter, CHARUSAT on 12.06.2021

Mahendra Kamalnath S A has participated Webinar’ on ‘Essential Skills for Young Managers’ conducted by S.B.J.S Rampuria Jain College, Bikaner on 6th June 2021

Mahendra Kamalnath S A has participated One Day National Level Training on “Design of Foundation for a Multi-Storey Building using Staad Foundation “by Mr N. Lingeshwaran, Assistant Professor, Civil Engineering Department, K L Deemed to be University, on 31.05.2021

Mahendra Kamalnath S A webinar titled “Recent Advancements in Civil Engineering” held on May 27th & 28th 2021 organized by Department of Civil Engineering, Dr. Mahalingam College of Engineering & Technology

S Rushikaa was awarded the best speaker at DB8, an online debate conducted by EDC of Rajalakshmi Engineering College on 12.09.21.

Abinaya D has participated in Virtual Site Visit of the Reinforcement works at an Apartment Complex organized by on 04.09.21

Abinaya D has participated in Advanced Construction Materials and Structures organized by SSNCE on 09.09.21



## Student Activities

Keerthana A has participated in Practical Tips for Safety in Construction site organized by SSNCE on 25.08.21

Keerthana A has participated in Industry Expectations and facing interview organized by SSNCE on 24.08.21

Keerthana A has participated in Learn yourself on STAAD Pro organized by SSNCE on 22.09.21

Keerthana A has participated in Future Concrete Technology organized by SSNCE on 07.09.21

Keerthana A has participated a one-day Workshop in Advanced Construction Materials and Structures organized by SSNCE on 09.09.21

Keerthana A has participated in Virtual Site Visit of the Reinforcement works at an Apartment Complex organized by SSNCE on 04.09.21

Keerthana A has participated in on line guest lecture: Foundation structure for sensitive structures and Tall structures organized by SSNCE on 11.09.21

Keerthana A has participated in ACE inaugural function organized by SSNCE on 26.08.21

Prashant S has participated in Learn yourself on STAAD Pro organized by SSNCE on 22.09.21

Roshna R has participated in Nano Technology & The Future of Thermal Insulation organized by SSNCE on 24.09.21

Roshna R has participated in on line guest lecture: Foundation structure for sensitive structures and Tall structures organized by SSNCE on 11.09.21

Roshna R has one day Workshop in Advanced Construction Materials and Structures organized by SSNCE on 09.09.21

Kalaimagal V. P. (II year) attended webinar in ICI Student chapter, Virtual site visit of the Reinforcement works at an apartment complex on 04/09/2021

## Student Activities

Kalaimagal V. P. (II year) attended webinar in ICI student chapter, Future of concrete Technology on 07/09/2021

Kalaimagal V. P. (II year) attended ICI workshop, Advanced Construction Materials and Structures on 09/09/2021

Kalaimagal V. P. (II year) attended ICI workshop, Learn yourself STAAD PRO on 22/09/2021

Kalaimagal V. P. (II year) attended webinar in ACE student chapter, Foundation design for sensitive structures and tall structures on 17/09/2021

Vanaja M J has attended webinar in ACE student chapter, Foundation design for sensitive structures and tall structures on 17/09/2021

Vanaja M J has attended ICI workshop, Learn yourself STAAD PRO on 22/09/2021

Vanaja M J has attended ICI workshop, Advanced Construction Materials and Structures on 09/09/2021

Vanaja M J has attended webinar in ICI Student chapter, Virtual site visit of the Reinforcement works at an apartment complex on 04/09/2021

Vaageesan U has attended webinar in ACE student chapter, Foundation design for sensitive structures and tall structures on 17/09/2021

Vaageesan U has attended ICI workshop, Advanced Construction Materials and Structures on 09/09/2021

Vaageesan U has participated in Virtual Site Visit of the Reinforcement works at an Apartment Complex organized by on 04.09.21

## Student Activities

Krishna Sree A (II year) attended webinar titled "Virtual Site Visit of The Reinforcement Works at an Apartment Complex" conducted by "ICI" on 04-09-2021.

Krishna Sree A (II year) attended webinar titled "Advanced Construction Materials & Structures" conducted by "ICI" on 09-09-2021.

Krishna Sree A (II year) attended webinar titled "Online Guest Lecture-Foundation for Sensitive Structures & Tall Structures" conducted by "ACE" on 17-09-2021.

Krishna Sree A (II year) attended webinar titled "Learn Yourself STAAD PRO" conducted by "ICI" on 22-09-2021.

Yuvasri Raja has participated in Nano Technology & The Future of Thermal Insulation organized by SSNCE on 24.09.21

Javith S has participated in Practical Tips for Safety in Construction site organized by SSNCE on 25.08.21

Javith S has participated in Nano Technology & The Future of Thermal Insulation organized by SSNCE on 24.09.21

Adarsh C has participated in Nano Technology & The Future of Thermal Insulation organized by SSNCE on 24.09.21

Adarsh C has participated in Three days' short term training on the topic "3D Modeling of building using sketch" organized by BTR construction from 23.08.21 to 25.08.21

Adarsh C has attended webinar in ACE student chapter, Foundation design for sensitive structures and tall structures on 17/09/2021

## Student Activities

Adarsh C has participated in Advanced Construction Materials and Structures organized by SSNCE on 09.09.21

Adarsh C has participated in Future Concrete Technology organized by SSNCE on 07.09.21

Adarsh C has attended ICI workshop, learn yourself STAAD PRO organized by SSNCE on 22/09/2021

Adarsh C has participated in Virtual Site Visit of the Reinforcement works at an Apartment Complex organized by SSNCE on 04.09.21

Adarsh C has participated in webinar on Expenditures incurred to maintain safety in construction field organized by SSNCE on 24.09.21

Adarsh C has participated in valuable contribution towards the smooth conduct of Legislative Assembly Election 2021 in coordination with Chengalpeta District Police

Yogasree Muthusamy (II year) completed Online training (3 weeks) at Construction Industry development council company from 09-08-2021 to 08-09-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "Practical tips for safety in construction site" conducted by "SSN College of Engineering" on 25-08-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "ACE inaugural function" conducted by "SSN College of engineering" on 26-08-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "virtual site visit" conducted by "SSN college of engineering" on 04-09-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "Future of concrete technology" conducted by "SSN College of engineering" on 07-09-2021

## Student Activities

Yogasree Muthusamy (II year) attended webinar/ workshop titled "Advanced construction materials and structures" conducted by "SSN College of engineering" on 09-09-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "Foundation design of sensitive structures" conducted by "SSN College of engineering" on 17-09-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "STAAD.PRO" conducted by "SSN College of engineering" on 22-09-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "Safety of laborer's" conducted by "SSN College of engineering" on 22-09-2021

Yogasree Muthusamy (II year) attended webinar/ workshop titled "Nano technology" conducted by "SSN College of engineering" on 24-09-2021

Kuchi Phani Soumika has attended webinar/ workshop titled "Foundation design of sensitive structures" conducted by "SSN College of engineering" on 17-09-2021

Kuchi Phani Soumika has attended webinar/ workshop titled "STAAD.PRO" conducted by "SSN College of engineering" on 22-09-2021

Kesavan J has completed the online course "Concrete Mix Design-IS 10262:2019 + Excel CMD sheet organized by Udeemy on 22-09-2021

Kesavan J has completed Online training (3 weeks) at Construction Industry development council company from 09-08-2021 to 08-09-2021

Rakshana SN has completed Online training (3 weeks) at Construction Industry development council company from 09-08-2021 to 08-09-2021

Rakshana SN has attended webinar/ workshop titled "Advanced construction materials and structures" conducted by "SSN College of engineering" on 09-09-2021

## Student Activities

Rakshana SN has attended webinar/ workshop titled "Nano technology" conducted by "SSN College of engineering" on 24-09-2021

Rakshana SN has participated in Virtual Site Visit of the Reinforcement works at an Apartment Complex organized by on 04.09.21

Vignesh M (II year) attended webinar/ workshop titled "Practical tips for safety in construction site" conducted by "IEI civil engineering student chapter" on 25-08-2021.

Vignesh M (II year) attended webinar/ workshop titled "Virtual site visit of the reinforcement works at an apartment complex" conducted by "ICI" on 04-09-2021.

Vignesh M (II year) attended webinar/ workshop titled "Future of concrete technology" conducted by "ICI" on 07-09-2021.

Vignesh M (II year) attended webinar/ workshop titled "Advanced construction materials and structures" conducted by "ICI" on 09-09-2021.

Vignesh M (II year) attended webinar/ workshop titled "Foundation design for sensitive structures and tall structures" conducted by "ACE" on 17-09-2021.

Vignesh M (II year) attended webinar/ workshop titled "Nano technology and the future of thermal insulation" conducted by "ICE" on 24-09-2021.

Vignesh M (II year) attended webinar/ workshop titled "IS 14489- principle components in codal provisions" conducted by "IEI student chapter" on 25-09-2021.

Vignesh M (II year) attended webinar/ workshop titled "Learning yourself STAAD pro" conducted by "ICI" on 22-09-2021.

Kavin S has attended webinar/ workshop titled "Advanced construction materials and structures" conducted by "ICI" on 09-09-2021.

## Student Activities

Kavin S has attended webinar/ workshop titled "Learning yourself STAAD pro" conducted by "ICI" on 22-09-2021.

Kavin S has attended webinar/ workshop titled "Nano technology and the future of thermal insulation" conducted by "ICE" on 24-09-2021.

Kavin S has attended webinar/ workshop titled "Foundation design for sensitive structures and tall structures" conducted by "ACE" on 17-09-2021.

Sathya Shree T R (III year) completed internship (1 month) at Walflower designs and Engineers from 15-08-2021 to 15-09-2021.

Sathya Shree T R (III year) attended workshop titled "Advanced construction materials and structures" conducted by SSN College of Engineering (ICI - civil dept) on 09-09-2021.

Sathya Shree T R (III year) attended webinar titled "International Webinar series: Future of Concrete Technology" conducted by SSN College of Engineering (ICI - civil dept) on 07-09-2021.

Sathya Shree T R (III year) attended webinar titled "Industry expectations and facing interviews" conducted by SSN College of Engineering (IEI - civil dept) on 24-08-2021.

Naresh Mohan (2nd Year) attended workshop titled "Advanced construction materials and structures" conducted by SSN College of Engineering on 9.9.2021

Naresh Mohan (2nd Year) attended webinar titled "Online guest lecture - Foundation design for sensitive structures and tall structures" conducted by SSN College of Engineering on 17.9.2021

Naresh Mohan (2nd Year) attended workshop titled "Learn Yourself STAAD PRO" conducted by SSN College of Engineering on 22.9.2021

## Student Activities

Naresh Mohan (2nd Year) attended webinar titled "Nano technology & The Future of Thermal Insulation" conducted by SSN College of Engineering on 24.9.2021

Manikandan D has participated in ACE inaugural function organized by SSNCE on 26.08.21

Manikandan D has attended workshop titled "Advanced construction materials and structures" conducted by SSN College of Engineering on 9.9.2021

Manikandan D has attended webinar titled "Nano technology & The Future of Thermal Insulation" conducted by SSN College of Engineering on 24.9.2021

Gokul S (II year) attended webinar titled " Industry expectations and facing interviews" conducted by "IE(I) civil engineering student chapter on 24.08.2021

Gokul S (II year) attended webinar titled "Practical tips for safety in construction site" conducted by "IE(I) civil engineering student chapter" on 25.08.2021

Gokul S (II year) attended webinar titled "Technical demolition of structures" conducted by " Indian concrete institute" on 13.08.2021

Gokul S (II year) attended "ACE inaugural function" conducted by "ACE" on 26.08.2021

Gokul S (II year) attended webinar titled "Virtual site visit of the reinforcement works at an apartment complex " conducted by " SSN - ICI Student chapter "on 04.09.2021

Gokul S (II year) attended online workshop titled "Advanced construction materials and structures" conducted by "SSN -ICI Student chapter" on 09.09.2021

Gokul S (II year) attended webinar titled "Nano technology and the future of thermal insulation" conducted by ICI (UK) SSN - student chapter on 24.09.2021

Magendra Kamalnath secured First position in the mind mansion held on 17 & 18 July 2021 organized by Entrepreneurs Club of Ahmedabad University



## Student Activities

Nitesh M secured First position in the mind mansion held on 17 & 18 July 2021 organized by Entrepreneurs Club of Ahmedabad University

Abinaya D (III Year) attended webinar titled "Nano technology & The Future of Thermal Insulation" conducted by "ICE-SSN student chapter" on 24.09.2021

Abinaya D (III Year) attended webinar titled "Career prospects in Civil engineering" conducted by "ICE-SSN student chapter" 28.09.2021

Abinaya D (III Year) attended webinar titled "Engineering Intervention and Solutions for Structural Engineering Problems" conducted by "IEI-SSN student chapter" on 29.09.2021

Vishnu Balaji M, III Year completed an internship titled "Application of GIS Technology" from 13.08.21 to 13.09.21 from Construction Industry Development Council, Govt. of India.

C. Abishek Srinivas (III Year) has been awarded Consolation prize in the Oratorical competition on "Role of Construction in Nation Building" held on 21st October 2021 at Chennai organized by Builders' Association of India, Southern Region

Sonika M (III Year) has been awarded Second prize in the Oratorical competition on "Role of Construction in Nation Building" held on 21st October 2021 at Chennai organized by Builders' Association of India, Southern Region

S. A. Magendra Kamalnath (II Year) has participated in the Oratorical competition on "Role of Construction in Nation Building" held on 21st October 2021 at Chennai organized by Builders' Association of India, Southern Region

S. Rushikaa (II Year) has been awarded Consolation prize in the Oratorical competition on "Role of Construction in Nation Building" held on 21st October 2021 at Chennai organized by Builders' Association of India, Southern Region

## Student Activities

Vanaja M J attended a guest lecture on Engineering Interventions and solutions for structural engineering problems on Sep 29, 2021 organized by SSN IEI student chapter.

Kalaimagal V P attended a guest lecture on Engineering Interventions and solutions for structural engineering problems on Sep 29, 2021 organized by SSN IEI student chapter.

Keerthana A (II year) attended webinar titled NANO technology & the future of thermal insulation by institution of civil engineers(uk) ssn-student chapter on 24.09.21

Keerthana A (II year) attended webinar titled CAREER prospects in civil engineering by institution of civil engineers(uk) ssn-student chapter on 28.09.21

Keerthana A (II year) attended webinar titled Engineering Intervention and Solutions for Structural Engineering Problems by SSN CE - IEI Students's Chapter On 29.09.21

Magendra Kamalnath S A Has participated in webinar on Career Prospects in Civil Engineering organised by SSN ICE UK Student Chapter on 28th September 2021

Magenda Kamalnath S A Has participated in webinar on Nano Technology and Future of Thermal Insulation organized by SSN ICE UK Student chapter on 24th September 2021

Magendra Kamalnath S A Has participated in online guest lecture on foundation design for sensitive structures organized by SSN College of Engineering on 17.09.2021

Magendra Kamalnath S A Has participated in workshop on advanced construction materials and structures conducted by SSN College of Engineering on 09.09.2021.

C Adarsh, II Year, has attended online webinar on “Is 14489-Principal Components in The Codal Provisions” held on September 25th 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

C Adarsh, II Year, has attended online webinar on “Career prospects in Civil Engineering ” held on September 28th 2021 organized by Department of Civil Engineering, SSN College of Engineering, Kalavakkam - 603 110.

## Student Activities

C Adarsh, II Year, attended a guest lecture on Engineering Interventions and solutions for structural engineering problems on Sep 29, 2021 organized by SSN IEI student chapter.

Shaleni Elemthendral A, has successfully completed a six weeks online training of STAAD Pro. on 08-06-2021.

Keerthana A has attended online webinar on Practical difficulties of concreting in the field” organized by Qcrete quality concrete on 03.07.21

Keerthana A has attended online webinar on “Conservation and Management of Water Resources” organized by KSCSTE-Centre for Water Resources Development and Management on 31.05.21

Gokul S has attended online webinar on Corrosion of steel reinforcement in concrete structures – caused and protection” organized by Aalim Muhamed Salegh College of Engineering 03.07.21

Gokul S has attended a webinar on "Problems and New Technologies for Rigid Pavements" organized by UltraTech on 10.07.21.

Karan K has attended online webinar on Practical difficulties of concreting in the field” organized by Qcrete quality concrete on 03.07.21

Jyothir Adithya Skandan R M has undergone the Industry oriented online live workshop on “Project Planning Using MSP” by Construction Management Training Institute attended online webinar on Practical difficulties of concreting in the field” organized by Qcrete quality concrete on 17.06.21.

Adarsh C has attended online webinar on “Education: Past, Present and Future” organized by Qcrete quality concrete on 10.07.21

## Student Activities

Adarsh C has attended online webinar on “Conservation and Management of Water Resources” organized by KSCSTE-Centre for Water Resources Development and Management on 31.05.21

Magendra Kamalnath S A has attended the online training programme on “Futuristic Research in Disaster Resilience” conducted by National Institute of Disaster Management, GoI & Vidyavardhaka College of Engineering, Mysuru from 11.06.21 to 13.06.21

Magendra Kamalnath S A has attended the online webinar on “TBM Tunnel Excavation in Metro Projects” organized by Ramco Institute of Technology on 07.07.21

Magendra Kamalnath S A has won 1<sup>st</sup> place in the event “Chase the Case” organized by KGEC E-Cell on 07.07.21

Adithya V has attended online webinar on “Advances in Pre-Engineered Buildings” conducted by Dept. of Civil Engineering and ICI student chapter, SSN College of Engineering on 12.06.21

Adithya V has attended online webinar on “AR and VR for Civil Engg. Applications” conducted by Dept. of Civil Engineering, Sona College of Technology on 04.06.21

Adithya V has attended online webinar on “Design Methodology and Case Study in Cantilevers” conducted by Dept. of Civil Engineering and IEI student chapter, SSN College of Engineering on 06.06.21

Adithya V has attended online webinar on “Leadership Skills for Engineers” conducted by Arasu Engineering College on 11.06.21

Adithya V has attended online webinar on “Project Management Fundamental” conducted by Nagpur Institute of Technology on 05.06.21

## Student Activities

Nitesh M has attended a webinar on "Problems and New Technologies for Rigid Pavements" organized by UltraTech on 10.07.21.

Nitesh M has attended a webinar on "Cement Superplasticizers Compatability" organized by UltraTech on 17.07.21.

Nitesh M has attended an online Webinar on 'Use of New and Innovative Technologies for Rapid Mass Housing' held on 24th July 2021, organized by UltraTech Cement Ltd.

Vignesh M has attended an online webinar on “Seismic Strengthening of Concrete Structures using Response Control Methods” organized by Narasaropeta Engineering College on 05.06.21

Vignesh M has attended online webinar on “Design Methodology and Case Study in Cantilevers” conducted by Dept. of Civil Engineering and IEI student chapter, SSN College of Engineering on 06.06.21

Vignesh M has attended online webinar on “Guidelines for Fire and Life Safety Measure for Field Engineers” conducted by Dept. of Civil Engineering and ACE, SSN College of Engineering on 09.06.21

Vignesh M has attended online webinar on “Foundation in Buildings for Field Engineers” conducted by Dept. of Civil Engineering and ACE, SSN College of Engineering on 12.06.21

Vignesh M has attended an online webinar on "Advances in Pre-Engineered Buildings" conducted by Dept. of Civil Engineering and ICI student chapter, SSN College of Engineering on 12.06.21

## Student Activities

Vignesh M has attended an online webinar on "Retrofitting of Structures" conducted by Dept. of Civil Engineering and ICI student chapter, SSN College of Engineering on 28.06.21

Amith Krishna M has attended an online webinar on "Advances in Pre-Engineered Buildings" conducted by Dept. of Civil Engineering and ICI student chapter, SSN College of Engineering on 12.06.21

Amith Krishna M has attended an online webinar on "Design Methodology and Case Study in Cantilevers" conducted by Dept. of Civil Engineering and IEI student chapter, SSN College of Engineering on 06.06.21

Amith Krishna M has attended online webinar on "Leadership Skills for Engineers" conducted by Arasu Engineering College on 11.06.21

Amith Krishna M has attended an online webinar on "Retrofitting of Structures" conducted by Dept. of Civil Engineering and ICI student chapter, SSN College of Engineering on 28.06.21

Amith Krishna M has attended an online webinar on "Seismic Strengthening of Concrete Structures using Response Control Methods" organized by Narasaropeta Engineering College on 05.06.21

Amith Krishna M has attended online webinar on "Education: Past, Present and Future" organized by Qcrete quality concrete on 10.07.21

Amith Krishna M has participated a webinar on " Practical difficulties of concreting in the field " organized by Qcrete ReadyMix (India) Pvt Ltd. on July 3rd, 2021

Srinidhi M has attended online webinar on "Education: Past, Present and Future" organized by Qcrete quality concrete on 10.07.21

## Student Activities

Ashwin Kumaran V has completed the course “Introduction to the Red Cross Red Crescent’s Approach to Migration” in the IFRC Learning Platform on 05.07.21

Ashwin Kumaran V has completed the course “Coronavirus: Basic Knowledge and Prevention Measures” in the IFRC Learning Platform on 02.07.21

Ashwin Kumaran V has completed the course “IFRC Needs for Emergency Needs Assessment” in the IFRC Learning Platform on 02.07.21

Ashwin Kumaran V has attended the webinar on “Introduction to Additive Manufacturing and Its Applications” conducted by Machenn Innovations on 06.07.21

Kesavan J has attended the webinar on “Preparation Procedure and Guidelines for IGBC-AP Examination” conducted by Sona College of Technology on 02.07.21

Kesavan J has been awarded the title of IGBC Accredited Professional – Associate by the Indian Green Building Council and CII on 03.07.21

Sharanya R has attended Online Webinar on "Education: Past, Present and Future" held on 10th July.2021 organized by Qcrete Readymix (India) Pvt.Ltd.

Sharanya R has attended Webinar on 'Conservation and Management of Water Resources' held on 31st May 2021, Training & Outreach Research Group and Kottayam Sub-centre, Centre for Water Resources Development and Management (CWRDM), Kozhikode.

Krishna Sree A has attended Online Webinar on "Education: Past, Present and Future" held on 10th July.2021 organized by Qcrete Readymix (India) Pvt.Ltd.

## Student Activities

Krishna Sree A has completed the online course “Covid-19 Contact Tracing” offered by John Hopkins University through Coursera on 21.07.21

Krishna Sree A has completed the online course “Psychological First Aid” offered by John Hopkins University through Coursera on 06.07.21

Krishnasambath S has attended online webinar on “Geopolymers were used in Pyramid construction? – A Scientific View” organized by Qcrete quality concrete on 22.07.21

Krishnasambath S has attended online webinar on “Education: Past, Present and Future” organized by Qcrete quality concrete on 10.07.21

Krishnasambath S has attended Webinar on 'Conservation and Management of Water Resources' held on 31st May 2021, Training & Outreach Research Group and Kottayam Sub-centre, Centre for Water Resources Development and Management (CWRDM), Kozhikode.

Yogasree Muthusamy has attended the webinar on “Applications of Solar PV Technology: From Earth to Space” organized by Central Electronics Limited, GoI on 10.07.21.

C. Adarsh, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

C. Adarsh, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

C. Adarsh, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.



## Student Activities

C. Adarsh, has attended a webinar “Health Monitoring of Concrete Structures through non-destructive testing technologies” by UltraTech, on 21-08-2021.

C Adarsh, has attended a two days’ workshop “Mathematical Foundations for Machine Learning and Data Science” by IT department, SSNCE on 13& 14-08-2021.

Gokul S, has attended a webinar “Story of the Bridge ‘That could not be built’” by UltraTech, on 07-08-2021

Gokul S, has participated the virtual industrial visit on 11 August, 2021 by The Dow & SWE Chennai Affiliate.

Gokul S, has attended a webinar “Best Construction practices for ensuring Durability” by UltraTech, on 14-08-2021.

Gokul S, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Gokul S, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.

Gokul S, has participated CMTI Qualifier Online Test” by CMTI on 05.08.2021.

Magendra Kamalnath, has successfully completing 2 months’ internship program & mini project using python during the month of June-July 2021

## Student Activities

Magendra Kamalnath, has won the First prize in The Mind Mansion held on the 17<sup>th</sup> and 18<sup>th</sup> July 2021 organized by the Entrepreneurs' Club.

Magendra Kamalnath, has won the Third prize at Innovat-a thon V1.0 a two-day ideation event hosted by Digit Squad VIT, Vellore in the year 2021.

Adithya V, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.

Adithya V, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Adithya V, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Adithya V, has participated and successfully completed the training program in the AutocAD and Catia from 20<sup>th</sup> May to 05<sup>th</sup> July, 2021 by AUTO DESK.

Keerthana A, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Keerthana A, has attended a webinar “Science, Engineering and Rehabilitation of Heritage Structures” by Qcrete on 31-07-2021.

Madhannath S, has participated the virtual industrial visit on 11 August, 2021 by The Dow & SWE Chennai Affiliate.

## Student Activities

Madhannath S, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Javith S, has attended a webinar “Working with high performing concrete at Project” by UltraTech, on 31.07.21

Javith S, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Giridharan SY, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Giridharan SY, has created a poster for IEI SSN student chapter webinar on 24.08.21.

Abinaya D, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Samundeeswari P, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Dharshan M S, has successfully completed an Autodesk “Summer Internship in Structural BIM-Revit Structure 2021” during July 2021.

Girish SK, has successfully completed an Autodesk “Summer Internship in Structural BIM-Revit Structure 2021” during July 2021.

Nithyalakshmi J, has successfully completed an Autodesk “Summer Internship in Structural BIM-Revit Structure 2021” during July 2021.

## Student Activities

Prashant S, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021

R. Senthamilselvi, has successfully completed an Autodesk “Summer Internship in Structural BIM-Revit Structure 2021” during July 2021.

Rakshitha S, has successfully completed an Autodesk “Summer Internship in Structural BIM-Revit Structure 2021” during July 2021.

G. Thosi, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.

Vel Kruthik G, has successfully completed an Autodesk “Summer Internship in Structural BIM-Revit Structure 2021” during July 2021.

Kesavan J, has participated the virtual industrial visit on 11 August, 2021 by The Dow & SWE Chennai Affiliate.

Ashwin M C, has attended a webinar “Working with high performing concrete at Project” by UltraTech, on 31.07.21

Ashwin M C, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.

## Student Activities

Amith Krishna M, has attended a webinar “Practical Difficulties of Concreting in the field” by Qcrete on 07 & 08.08.2021

Krishna Sree A, has attended a webinar “Working with high performing concrete at Project” by UltraTech, on 31.07.21

Yashika M, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Yashika M, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.

Subiksha R S, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Subiksha R S, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Krishna Sree A, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.

Krishna Sree A, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Kesavan J, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

## Student Activities

Sharanya V, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Sharanya V, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021.

Sharnya V, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Saranya V, has attended a webinar “Best Construction practices for ensuring Durability” by UltraTech, on 14-08-2021.

Krishna Sree A, has attended a webinar “Best Construction practices for ensuring Durability” by UltraTech, on 14-08-2021.

Yashika M, has attended the Inaugural Function of ACE by SSNCE on 26-08-2021.

Vignesh M, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Kesavan J, has attended the Inaugural Function of ACE by SSNCE on 26-08-2021.

Kesavan J, has attended the webinar on Technical demolition of structures by ICI on 13.08.2021

## Student Activities

Kesavan J, has attended the webinar on Public realm landscape design using sustainable concrete solution in Kualalumpur on 30.07.21

Krishna Sree A, has attended the Inaugural Function of ACE by SSNCE on 26-08-2021.

Krishna Sree A, has attended a webinar on Geopolymers were used in pyramid construction? -A scientific view”, by Qcrete on 22, July 2021.

Lavanya J, has attended the Inaugural Function of ACE by SSNCE on 26-08-2021.

Lavanya J, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Lavanya J, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Subiksha R S, has attended the Inaugural Function of ACE by SSNCE on 26-08-2021.

Yashika M, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Subiksha R S, has completed course in AutoCAD: 2D and 3 D by Udemy on Aug 15, 2021

Yashika M, has completed course in AutoCAD: 2D and 3 D by Udemy on Aug 15, 2021

## Student Activities

Amith Krishna M, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021

Gayathri Sangavi G, has attended a webinar “Practical Tips for safety in Construction Site” by SSNCE on 25-08-2021.

Gayathri Sangavi G, has attended a webinar “Introduction to MS Project” by SSNCE on 18-08-2021.

Nitesh M, has attended a webinar “Story of the Bridge that could not be built” by UltraTech on 07.08.21.

Nithesh M, has attended a webinar “Industry Expectation and facing interviews” by SSNCE on 24-08-2021

Nithesh M, has attended the Inaugural Function of ACE by SSNCE on 26-08-2021.

Nithesh M, has won the Third prize at Innovat-a thon V1.0 a two day ideation event hosted by Digit Squad VIT, Vellore in the year 2021.

## Student External Recognition Extra-curricular

Adithya V has participated in the Online International Workshop on “Different Schools of Yoga” conducted by Meenakshi Academy of Higher Education and Research from 12 to 15 Jun 2021.

Yogasree Muthusamy has completed an online course on “Yoga at Home” through Udemy on 19.07.2021.



## **L&T Interview**

### **Placement experience:**

Name: Vidhyaa K and Sheena Grace D

Company: L&T Constructions

Role: GET

CTC: 6,00,000

No of rounds: 2

The 1<sup>st</sup> round was the online test round. It was a 2 hours' test which was proctored. The use of rough sheet and pen was allowed. There were totally 3 sections namely aptitude, quantitative, English, and core which was related to civil. Each section had 30 questions except for the core part which had 40 questions in total. The core was questioned from all subjects that we had studied from roughly semester 3 to semester 6. There was no negative marking. There was option for tagging questions and answering them at the end if we wish not to lose time in the questions whose answers, we were not familiar with. All this had to be finished within the stipulated 2 hours' time. Candidates who cleared the online assessment round were shortlisted for next round. The 2<sup>nd</sup> round was the personal interview round which was technical and behavioural combined. So, we didn't have a separate HR interview round. It also had an extempore. First, they us asked to introduce ourselves and then they asked about our family background. Then they started with the extempore. We were given 3 topics and asked to choose one. They gave 3 minutes to prepare and we had to talk about that topic for roughly 5 minutes. The extempore topics were not related to civil/domain. Then they asked what our favourite subject is and we are supposed to say the subject that we have completed and passed in our previous semesters. They asked a few questions form that subject and then some general questions from civil. Then they started asking questions about the projects and internships that we had mentioned in our resume. The interview went on for around 30 minutes. The overall interview experience was good.

They expected us to explain our answers rather than just stating them. My tip to ace the L&T interview from my experience would be to learn the basics of all civil topics and have a good knowledge on everything that you have mentioned in your resume.

Final result: Selected

## **Deloitte placement experience**

### **Placement experience:**

Name: Grandhe Vishnu Prathap

Company: Deloitte USI

Role: Analyst

CTC: Rs.7,60,000/-



No of rounds: Aptitude and Coding, Technical+ HR interview

Aptitude and coding round was conducted in AMCAT platform, consisting of verbal, reasoning and coding sections. The questions are of easy to moderate difficulty. Coding section consist of two case study based questions (easy to moderate difficulty). You can refer geekforgeeks for coding questions. If you practice previous amcat questions, it's easy to clear this round.

Technical+ HR interview: Be thorough with the skills you mentioned in your Resume. The interview was about 40 to 45 min, consisting of both technical and HR questions, for me it took 45 min.

The interview was proctored and they will ask you to share your screen. The first 25 min they asked me about some of the basic questions in Programming (language of your choice like python, C, C++, java etc. I chose python and C), SQL, HTML, Data structures (refer geekforgeeks for all those basics). They will ask us to write code for two or three questions, in notepad or any other platform while sharing the screen. They asked me to explain each and every line of code while writing and some basic questions like difference between C and Python, difference of list and tuple, advantages of python over other languages etc. In sql basic questions like different joining clauses, and asked to write some queries to get info from table etc. After 25 min of technical interview, they started asking some regular HR questions like why are you shifting from civil to IT field, where did you learn programming and how was your experience, why should we hire you, about our leadership and management experiences in real life etc. Be confident, The interviewer was so friendly, no need to have perfect answer for every question, you should show them that you are a keen learner, and has interest in software development, new technologies. The overall interview experience was great. Be confident and be thorough with your resume, you can easily crack this interview. (PS: Refer some YouTube videos on Deloitte interview, day before the interview. It helped me alot to boost my confidence)

Final result: Selected

## Placements in AY 2021-22

The Department of Civil Engineering actively encourages all the students to participate in the placement process which is centrally coordinated and organized by the Campus Development Centre, SSNCE. The final year students are enrolled in the campus interaction portal wherein the job pertaining details are posted. Students can apply for the interview process in the portal, provided they meet all the eligibility criteria laid down by the participating company. The companies are categorized as Regular, Dream, Super Dream, Marquee and Core based on the salary package they offer and type of the job. Some of the companies participating in the campus recruitment process are presented in Table 1.

Table 1. Top companies recruiting across categories

Category	Top Companies
Marquee	Amazon, Microsoft, Facebook, Apple, Google, PayPal, Adobe, Commvault
Engineering	L & T, Dow, Caterpillar, Saint Gobain, Alcatel Lucent, Tata Chemicals, Philips
Auto	Hyundai, Daimler, Ashok Leyland, Renault Nissan, Ford, TVS Group, MRF
Construction	L&T ECC , CBRE, ACC Cement, RDC Concrete, Shobha Builders, Adani Ports
Analytics	Mu Sigma, LatentView, Global Analytics, Crayon Data, Tiger Analytics, ADF
IT Services	Cognizant, TCS , Infosys, Accenture, HCL, Capgemini, IBM, LTI, DXC, Tech M
Product	Dell, Samsung, Accolite, Optum, Navis, Citi, Barclays, ThoughtWorks, Zoho,
Consulting	Goldman Sachs, McKinsey & Company, SAP, EY, Deloitte, Kumanti

The companies are approached by the CDC and in various situations companies also show interest in recruiting the students of SSNCE owing to the previous good relationship and rapport established by the alumni working in those organizations. Some Civil Engineering based core companies like Hochtief, Savills, Cowi express their interests in recruiting our students based on their specific project based requirement which creates a platform for the students to get exposed to the industry.

Some of the notable highlights are mentioned below:

- In batch 2016-20, students got placed in Core companies like ACC Ltd, Wood (US based), L&T Construction, RDC Concrete and DOW Chemicals.
- In batch 2017-21, students ventured in to Non- IT companies like Future Genralli, BYJU's, Climber knowledge and Careers Pvt Ltd and Latent View. Students were also placed in core companies like Hochtief, Savills and Cowi through industry – academic interaction.
- In batch 2018-22, 2 students got placed in Amazon (Non – IT) with 28.60L salary package.
- In addition to the placements, students were also selected in the internship roles in the esteemed core companies like DOW Chemicals, Saint-Gobain and L&T wherein students got industrial exposure.



- Dr. Aswin Sriram G  
Faculty Placement Coordinator-Civil

## LATEST INNOVATIONS IN CIVIL ENGINEERING

SRINIDHI.N

II Year

Civil engineering like any other industry, witness's technological innovations and improvements. These new emerging technologies helps in increasing efficiency, sustainability, quality and at the same time is more cost effective and time saving.

The following are some of the latest innovations which I would like to produce below for information sharing:

### ➤ **Modular construction**

In this technology, the building is constructed off-site using the same materials and designed at the same standards as conventional on-site construction. It helps in limiting environmental as well as public disruption, delivering components as and when needed controlling inventory, and turning construction into a logistics exercise. It also offers strong sustainability benefits, fewer vehicle movements, less waste, just in time manufacturing and delivery. This method is currently popular in developed countries and gaining momentum in India. Nowadays, we can see many tall buildings brewing in short periods, which uses this modular construction technique.

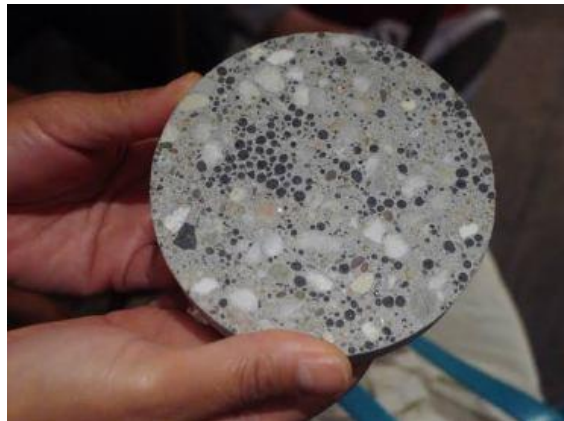
### ➤ **Thermal Bridging**

The demand for efficient insulation material is becoming very important in construction industry. The heat through walls tends to be cross directly through the building envelope to the internal fascia such as dry wall. This process is called "Thermal Bringing". The most effective thermal bridging technology now in use is "Aerogel", the NASA technology developed for cryogenic insulation. This technology can be used to insulate studs, which can considerably increase the thermal resistance of the walls.

## ➤ **Self-healing Concrete**

As we all know, cement is the most widely used construction material. It is one of the biggest contributors to harmful carbon emissions, to the tune of around 7% of annual global emissions.

One of the major problems is cracking in construction, normally caused by exposure to water and chemicals. To prevent this problem, the industry is looking to develop a self-healing concrete, using a mix containing bacteria within microcapsules, which will germinate when water enters a crack in the concrete, which exact limestone, plugging the crack before water and oxygen can corrode the steel reinforcement.



## ➤ **Photovoltaic Glaze**

Glazing integrated photovoltaic (BIPV) can help buildings generate their own electricity, by turning the whole building envelope into a solar panel. This is not only economical but also environmentally friendly. Transparent photovoltaic glass is used as a structural material, forming windows, facades and roofs. The dependence for Electrical Energy from outside agencies is limited when using this technology.

The glazing material is efficient at producing energy even on north-facing, vertical walls. Its high performance at raised temperatures means, it can be double glazed or insulated directly.

## ➤ **Kinetic Footfall**

This is another emerging innovation. It is called “KINETIC ENERGY”, which is still under development that enables the flooring to harness the energy of footsteps. It may be utilized indoors or outdoors in high density areas and generate electricity from pedestrian footfall using an electromagnetic induction process and flywheel energy storage.

The kinetic footfall is most efficient to transport hubs where a large flow of people will pass over it. If this technology is widely developed in India, just assume the energy developed in most populated cities in India like Mumbai, Kolkata etc., It can solve the Electrical Energy problem for ever.

This technology has been installed in Brazil’s Rio de Janeiro Football ground, to help power the floodlights.

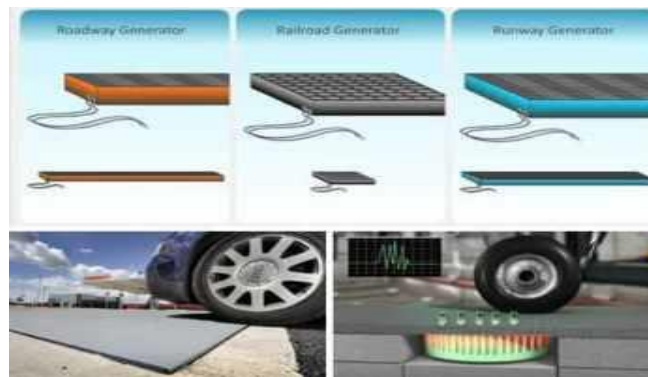


## ➤ **Kinetic Roads**

The utility of kinetic energy potential in roadways is being explored in Italy by a start-up underground power. The company has developed a technology called “LYBRA”, a tire-like rubber paving that converts the kinetic energy produced by moving vehicles into electrical energy.



This technology, operates on the principle that a braking car dissipates kinetic energy. This new cutting-edge technology is able to collect, convert kinetic energy into electricity and pass it on to the electricity grid. **It also helps in improving road safety, and promotes sustainability of road innovation in construction.**



The above technologies are only a few, we will learn more and more about new innovations as we move deep into the ocean that is, Engineering.

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<http://mts.hindawi.com/submit/journals/tswj/civil.engineering/gtice/> according to the following timetable:

## SAFETY AT CONSTRUCTION SITE

**C. ADARSH**

**II YEAR**

Safety is one of the major concerns at every construction site. Every company or organization must ensure that work goes on smoothly in a safe place. Safety must be provided to both men and material at the site. Safety was not given much importance before 15-20 years, but when cases of fatality and accidents began to increase, the government decided to impose a separate law for the safety of workers. A committee was formed and rules related to the safety measures followed in construction sites were made under ISO45001. Each company has its own safety standards, and good quality safety standards to keep up the reputation of the company.

The safety provided to the workers are divided into several areas like administrative control, PPEs (personal protective equipment), excavationsafety, electrical safety, protection from height and house keeping safety.

Administrative control looks after the Work permit for the workers, Security control, morality, physical fitness, daily in and out Records and Workers ID cards. They also ensure that proper warning signs are placed at required lo cations. All the workers are compulsorily needed to undergo proper Induction Training before the start of the project. A basic idea about all the available safety equipments and usage of safety gadgets are taught to the workers. Overseeing of the Safety equipments are done by the administrative control .



Personal protective equipment (PPEs) is one of the most important parts of any work ranging from construction, electrical, transportation, maintenance and manufacturing. They provide individual safety to all the workers in the field. All the basic training about the PPEs are given to the workers by safety engineers and Administrative control department. Safety gadgets such as helmets, safety shoes, safety goggles, hand-gloves (cotton, rubber or 11Kv rubber), hanging Jacket are provided to the workers. Reflective jackets are provided to the workers who work at night or during mining process.



The first step of every construction work is Excavation of the land. When digging a soft soil comprising of river sand, clay or fine particles, we must ensure maximum cautions since it may lead to soil erosion. Proper soil testing and necessary safety measures must be taken before digging the land. The excavated land must be barricaded before the main work starts. All shoring (method of protection from soil erosion) activities must be checked upon before excavation.



Height protection must be given to all the buildings more than 6 feet in height. Safety nets is provided all around the floor to protect the workers from falling. Normally, hand rails are fixed at the end of the construction, during this time a temporary hand rail is fixed to protect the worker from falling from the steps. Elevators are to be maintained then and there to ensure its proper working. Scaffoldings are temporary structures which helps to support men and material. All exterior work is done using the scaffoldings, scaffoldings must be properly built and its strength must be ensured.

Safety must not be compromised ~~where~~ Ensuring Safety to all the workers, provides a better working environment and it builds the trust between the employer and employee. Reputation of a company depends upon the various safety methods and standards undertaken by the company. A company must never compromise in terms of the expenditure on the safety of the workers. Safety is not a choice for the workers, it is their right, so it must be the duty of every company to protect their employees at all cost.

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## **Does ecology and civil engineering go hand in hand?**

- SATHYA SHREE T R  
- III YEAR, CIVIL

In biological terms, ecology is defined as the branch of study that deals with the relationships of the living organisms among one another and with their physical surroundings. The physical environment includes the land where organisms live, the water that organisms drink and live in, and the air that organisms breathe. Civil engineering, which is defined as the branch of engineering that involves planning, designing, constructing and maintaining the physical and naturally built environment, always plays a significant role in the maintenance of ecology.

Firstly, the use of land majorly involves agricultural purposes. The proper implementation of an irrigation system is of vital importance. Researchers say that intensively irrigated land causes replenishment of unconfined aquifers in more arid zones and affects the hydrological cycle of the region and causes serious environmental impacts such as the increase in the salinity of groundwater recharge caused by the irrigated permeable salts. This might end up affecting the earthworms and other natural soil ecosystems present. This might also result in the reduction of naturally present soil nutrients and increase the dependence on chemical fertilizers. With proper soil investigation and irrigation planning, the usage of the type of water supply system to the irrigation fields by harnessing the best of the natural water resources can be decided. This not only greatly helps the farmers with the cost of production but also helps in the judicious use and maintenance of natural water resources and the preservation of the soil ecosystem. The second major use of land deals with the construction of buildings. Buildings are the non-living giants that stand tall, living and breathing for years and years. The carbon footprint of the buildings also contributes to environmental changes and global warming to nearly 11%. A STIRPAT Model-based study on the emission of carbon dioxide by buildings was conducted in China and was found that the per capita floor space of residential buildings has a rather prominent influence on SC and C regions (SC regions – average temperature of the coldest month:  $\leq -10^{\circ}\text{C}$  and C regions - the average temperature of the coldest month:  $0 \sim -10^{\circ}\text{C}$ ), it is due to with the growth in floor space of buildings, CO<sub>2</sub> emissions from floor space of buildings relatively increase. The CO<sub>2</sub> emissions from floor space of buildings accounted for about 69% and 65% of the gross respectively.

A similar study was conducted in the United States and was found that the emissions contributed to 1.5 tons of carbon equivalent per year. This can be overcome with the construction of greener buildings that interact with the environment more ecologically. The use of less heat emitting cement and paints, increase in natural ventilation would greatly help in the same. The construction of sustainable buildings has reduced the carbon footprint considerably up to 38% globally.

Secondly, the water that organisms drink and live. Water has been an age-old friend of civil engineers. Water itself plays a significant role in the construction process and is also the bosom friend that gets affected by construction. Coastal construction has always been a source of great attraction and attention. But the effects of the same on the water and marine ecosystem are of less attention. A recent study on quantifying the construction footprint in seas and oceans has revealed that nearly 30,000 km<sup>2</sup> of seabed floor has been used for construction and has led to the development of variation in the pattern of water flow, light flow and chemistry, noise pollution, serious alterations in the electric fields due to the underwater cables. This ocean sprawl may cause difficulties for endangered marine species. This also causes serious havoc to the coral reefs that act as a food source for the fisheries and protect the coastline from hard and rough sea waves. This also destabilizes many precious coastal ecosystems like salt flats and mangroves. Not only this the groundwater or the surface run-off water that is closer to the construction site is often polluted with volatile organic compounds, paints, glues, oils, lubricants and other toxic chemicals and more importantly with cement. This causes a serious impact on the groundwater ecosystem and other naturally occurring ecosystems such as pond ecosystem, river ecosystem, lake ecosystem, etc. The water pollution from construction sites is often underestimated for its potential to cause severe environmental problems. The environmental problems with coastal constructions can be overcome with underwater construction, an astonishing wonder that civil engineers created. Underwater construction causes noise pollution, but it can be overcome by using noise-reducing screens over the equipment. The problems with water pollution can be solved with a greener approach to buildings and construction. Use of water-soluble, non-polluting components would greatly contribute towards reducing the water pollution.

Finally, the air the organism breathes. Air pollution and degradation have always been an issue of serious concern right from the ages of increased urban development. The cause is not only owed by the increased automobile use and industries but also by the deterioration of building materials like construction metallic materials, concrete structures, bridges, art sculptures, exterior plastering of structures, glass, concrete, etc., by chemical loads present in the environment is an increasingly serious problem all over the world. The main building air-bound pollutants include PM10 (particulate matter with a diameter of 10 mm), PAHS (Polycyclic Aromatic Hydrocarbons) bound to particulate matter, volatile organic compounds like carbon monoxide, carbon dioxide and nitrogen oxides that are released from the construction sites during the process of construction. This issue results in serious health impacts on the residents as well as the building itself. The solution for the issue would be the construction of green and sustainable buildings. The greener the building, the cleaner the air! Another method to check the air pollution levels caused by the buildings would be to conduct air pollution quantifying audits, which is like that of the energy audit.

On analysing the three basic needs that an organism requires for survival; one can easily understand that civil engineering goes hand and hand with it. The solution for the ecological impacts that the construction of superstructures and substructures is just one approach: GREEN BUILDINGS! Greener the building, cleaner the ecology! Robert Redford once said “I think the environment should be put in the category of national security. Defence of our resources is just as important as defence abroad. Otherwise, what is there to defend?” Defending our nation is termed as civil services, defending our resources is called **CIVIL ENGINEERING!**

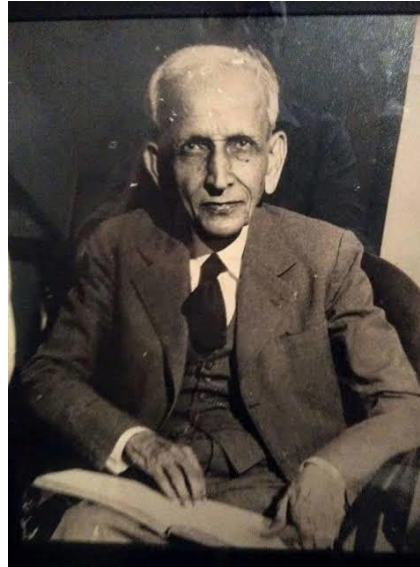
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## VISHWESHWARAIAH AND THE BIRTH OF THE KRISHNARAJASAGARA

- Naveen Kumar M  
III year

" Every man who has become great owes his achievement to incessant toil"



Sir M. Vishweshwariya, popularly known as Sir MV was a nation builder, an Engineer, a fine statesman, and the Creator of the famous KRS dam in Mysore. Born on September 15, 1860, in Muddenahalli, near Bengaluru. He lost his father when he was just 12 and the burden of the family fell on his mother. He realised he had to give his best, that there was no substitute for hard work. He was an excellent student and a hard worker right from his schooling days in Chikkaballapura to his college days in Bengaluru and Engineering in Pune, throughout which he topped his classes with distinction. He began his illustrious career at the public works department, Bombay, which was where he found his passion for water supply and conservation systems, and little did he know, he would help bring modern irrigation systems to a post-independent India.





After a brilliant career spanning 24 years, which saw him attain celebrity status, he was appointed as the Diwan of the princely state of Mysore, in 1909, under the post of a chief engineer. It was under his tenure, Mysore took great strides in the field of agriculture, education, industrialization, banking and commerce. His most significant project came in 1911, which was the construction of the Krishna Raja Sagara dam, in his home state of Mysore, which is still regarded as an engineering marvel and for its “ahead of its time design”.

The state of Mysore recognized the need for a dam in the region to tackle the extreme drought and irrigation problems faced by the region. And also, the only hydroelectric plant, in Sivasamudaram which supplied electricity to various parts of Karnataka and the Kolar Gold Fields, costed a lot for the government and was extremely inefficient during the summers, when water levels in Cauvery would dip.

William McHutchin, the Mysore's Public Works Department's Chief Engineer and his deputy, Captain Bernard Dawes took up the responsibility of this mammoth of a task, began inspecting ideal locations for the project to come up. began a systematic survey of the area. In 1908, they locked in on Kannambadi for which they drew up initial plans for a multipurpose reservoir, which was estimated to cost Rs 440 lakhs, was seen as a highly technical and an expensive project at the time. The project could not be conceived due the retirement of McHutchin, and the untimely death of Dawes in a drowning accident. Vishweshwariya took over the reins of the Mysuru PWD as the first Indian Engineer, and the responsibility of the dam fell on him. Using his previous experiences of designing dams in different parts of India and his studies on various Dams across the world, In 1910, Visvesvaraya and his engineers took on a fresh survey of the region and made preliminary sketches for the project. The plans were quite different from the initial plans in terms of technicalities, practicalities and costs. It was designed to be a true Multipurpose reservoir which would go on to support industries and commercial agriculture. Building a dam is no easy task and Visvesvaraya took on an active role in negotiations with all parties involved. He faced a lot of challenges on his way (Dam building was a relatively new pursuit at the time, It took over a year of planning and political, technical and financial negotiations with all the parties involved for the project to be accepted). His negotiations with the Kolar mining companies resulted in the companies agreeing to pay a higher price for electricity supplied in the next decade. Since damming the waters of Cauvery would impact the flow of water into the neighbouring state, they faced objections from Madras, despite him proving that it would not affect the water flow.

Discussions continued until September 1911 when Mysuru got the support of Viceroy Lord Hardinge who suggested reducing the capacity of the dam. The two governments then agreed to build an 11 TMC reservoir with foundations wide enough to permit later expansion that would irrigate a maximum of 25,000 acres. Despite reducing the project costs, the reservoir would still need approximately Rs 160 lakhs. There were of course objections from within the PWD department for such an expensive project. The project was finally greenlit in October 1911 as Visvesvaraya had the king's ear.

Construction for the dam began in 1911 and with it, Visvesvaraya took on the role of Dewan. Despite his new responsibilities, he continued to track the project and took back the reins in 1918. As the dam grew taller, its effects began to be felt. By 1915-16, farmers with lands irrigated by the project's canals had started growing sugarcane crops. Electricity production at the Sivasamudram project was also ramped up.

By the early 1920s, the dam had reached a height of 80 feet and work on the second stage commenced. By then the courts had ruled that Madras could not keep the Krishnarajasagara dam height from being raised. After the expansion, the Krishnarajasagara dam became the state's symbol of progress. The Cauvery valley was transformed and Mandya grew to become a prosperous sugar belt. The success was so resounding that today Visvesvaraya enjoys a near-deified status in the region.

Sir CM had designed the layout of Jayanagar in South Bangalore and is supposed to be the best locality to be designed ever in Asia. The Khadakvasla reservoir, Pune's water source, would overflow every monsoon. But the water that it could hold wasn't enough for the summer. Visvesvaraya designed a system of automatic gates that increased the capacity of the reservoir, which he patented as the Automatic Sluice Gates. Similar systems were installed in Tigra dam, near Gwalior, and Krishna Raja Sagara dam, in Mysuru. His direct involvement in a lot of public infrastructure projects sealed his legendary status and his work and efforts were recognized, when he received India's highest honour, the Bharat Ratna, in 1955 and was knighted as a Knight Commander of the British Indian Empire (KCIE) by King George V for his contributions to the public good, an honorary membership of London Institution of Civil Engineers, a fellowship from the Indian Institute of Science (Bangalore), and several honorary degrees. Soft-spoken, gentle and efficient, Vishwesharayya can easily be termed the builder of modern India if one were to refer to the construction work he undertook. He was also known for his sense of humour, when he said, he remarked matter-of-factly: "Death called on me long ago but found me not at home and went away", when asked about the secret of his longevity as he was nearing his 100th birthday.

He worked towards the benefit of the country with complete devotion. His birthday was declared as National Engineers Day from 1968 onwards, and it continues to be celebrated not only in India but also in Sri Lanka and Tanzania. His innovations continue to ignite the minds of aspiring engineers everywhere and his lifetime was truly a lifetime of sharing, nurturing and demonstrating that one should always push the boundaries of the ordinary.

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## ANCIENT STUDIES IN CIVIL ENGINEERING

Prithika Saishree S  
IV year

### **INTRODUCTION:**

Civil engineering has always been a part of life, dating back to the dawn of time. Civil engineering may have begun between 4000 and 2000 BC in Ancient Egypt and Mesopotamia (Ancient Iraq), when humans began to abandon their nomadic lifestyles, necessitating the construction of shelter.

### **HISTORY OF CONSTRUCTION:**

Dry-stone construction, or interlocking stones, was one of the first types of structure, and it was employed all across the world, from Europe to Asia to South America. In fact, combined with a lot of manpower, it's how the pyramids were built.

Egypt is credited with developing ramps, levers, window awnings, doors, glass, baths, locks, and scale drawings, among other things. For nearly 3,800 years, the Great Pyramid of Giza was the world's highest structure, and people still marvel at how it was constructed. Egyptian house was simpler than the pyramids at the time. Adobe, or sun-baked mud brick, was used to construct buildings and is still utilised in rural Egyptian homes today.

The ancient Greeks added spiral stairs, plumbing, central heating, urban planning, and cranes to the Egyptian discoveries. Timber was utilised to construct homes, and burned clay was used for roofing tiles.

The Romans were the next to arrive, and they made significant contributions to building. Their Roman Concrete, a cheap and simple hydraulic lime mortar, served as the foundation for modern-day cement and allowed the civilization to fast expand. They also brought the water wheel, sawmills, arches, sewage and water works to life; and, while historians claim that Egypt was the first to find glass, Rome was the first to utilise it for architecture rather than art.

## **ENGINEERING MARVELS OF EGYPTIAN CIVILISATION: THE PYRAMIDS OF GIZA:**

### **Brief summary:**

The Pyramid of Giza is ancient Egypt's most famous structure. To attain advanced goals, the Egyptians used relatively simple techniques. Archaeological sites, relief sculptures, paintings, and experimental archaeology all contribute to our understanding of Egyptian pyramid-building procedures today.

Giza's pyramids were built as royal tombs for three different pharaohs. The group's oldest and northernmost pyramid was built for Khufu. It is known as the Great Pyramid because it is the largest of the three.

The middle pyramid was constructed for Khafre, the fourth of the 4th dynasty's eight monarchs. Menkaure (Greek: Mykerinus), the fifth king of the 4th dynasty, constructed the southernmost and final pyramid.

## **Hypotheses of the construction practices:**

- **Survey and alignment:**

The ability of the Egyptians to survey and align constructions is called into question by three aspects of the pyramids. Pyramids' sides are first aligned with the cardinal points of the compass. Second, the pyramids' corners form perfect right angles. Finally, the pyramid's foundation had to be perfectly level in order to withstand the massive weight of the top levels.

The huge square base of a pyramid makes it a particularly stable building. The lower portion contains approximately 80% of the construction materials. As a result, just a few stone blocks were transported to the top levels. Because pyramids are solid structures, no walls or pillars were required to support them.

- **Tools, materials:**

The Egyptians devised and employed basic equipment for the construction of the pyramids. Plumb bobs and square levels were used to guarantee that block corners were square and surfaces were flat. Wood, twine, and light stones were used to make these instruments. Stonecutters employed copper drills and saws, and a quartz slurry was presumably used to help in the process. Water, sand, and gypsum were mixed together to make the slurry. The remains of such slurries have been discovered in ancient cuts, staining the stone green due to oxidation. Stones' sides were smoothed with copper chisels. Because copper is a soft metal, the chisels required to be sharpened frequently.

To excavate the channels needed to release a block from the bedrock, large dolerite stones were utilised as pounders. Finally, a mushroom-shaped stone with three grooves cut across the round area functioned as a primitive pulley, allowing the force on the ropes used to move the blocks to be redirected. All of the tools required for the construction of the pyramids have been discovered archaeologically.

- **Source and transport of construction material:**

Limestone, granite, and syenite (a depleted granite), sandstone, wood, and raw brick are the principal materials. Near the construction site of the Great Pyramids of Giza, there were quarries. The quarry's position may have aided in the selection of the pyramids' placement. Only the pyramid's external stone covering went a lengthy distance. Egyptians utilised a boat and a sledge to deliver the stone used to build the pyramids. Stone was carried onto boats from quarries located a significant distance away from the construction site. The Egyptians were able to move the stone close to the construction site by boat because to canals dug right to the location of the pyramids.

- **Construction methods that could have been employed include:**

Despite its simple design, a pyramid is a fantastic engineering feat. Several theories have been presented to explain this unique phenomenon. According to one theory, causeways were used to transport stone blocks on wooden sleds up the pyramids' sides. To lessen friction when hauling the blocks, the ramps were greased with water. A stone block may be dragged up a ramp with as little as ten men. There may have been several different levels of ramps on either side of the pyramid, and a ramp could have been twisted around the pyramid as it climbed in height.

Once a stone block had reached the desired level, wooden rockers may have been employed to guide it into place.



Another theory is that the block might be lifted from one level to the next using a wood crane with a counterweight on one end. Because the Egyptians did not have access to trees sturdy enough for this type of labour, this argument is disputed. The stone blocks used to construct the Great Pyramid of Giza were estimated to weigh 2.5 tonnes on average (2.5 tonnes). The wooden crane will most likely break before the block is raised because of the massive weight.

Another technique is to hoist the block onto the ramp with rollers and then move it into place with pivot points. Belt pulleys were utilised on ships at the time.

## **CONCLUSION:**

The Pyramids of Giza built to endure forever, did exactly this. Although the exact method of construction and the workforce used are still shrouded in mystery, Archaeologists and scientists are discovering new information everyday. It is the last surviving ancient wonders of the world. It's also an outstanding illustration of how Egyptian engineers and architects approached their work.

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<http://www.thecivilengg.com/History.php>

## LESHAN GIANT BUDDHA

**Yuvarani.P**

**IV, B.E. Civil**



The name Leshan Giant Buddha comes from the fact that it is the world's largest carved Buddha statue. The statue, which stands 71 metres tall and faces Mount Emei, is sculpted in a sitting posture. The statue is carved from a cliffside, with the project beginning in the year 713, taking 90 years for its completion. This remarkable historic site was listed as a UNESCO World Heritage Site in 1996.

## **HISTORY:**

The Leshan Giant Buddha was carved in the 8th century during the Tang Dynasty, during a high age of Buddhist culture in ancient China. Maitreya, a popular Buddha during the Tang Dynasty, is depicted in the sculpture. According to the sutras, the world will be at peace when Maitreya arrives. Maitreya sculptures were popular because people believed Maitreya would bring light and happiness into their lives in the future. That is why Hai Tong erected Maitreya to protect the residents of the area from the fear of flooding.

## **HOW TALL IS IT?:**

The Leshan Giant Buddha is the world's tallest Buddha sculpture, standing at 71 metres (233 ft). The Buddha's ear is 7 metres long and made of wood; his head is 14.7 metres tall and 10 metres wide; the Buddha's coiled hair has 1,021 buns; and his nose and eyebrows are 5.6 metres long. His lips and eyes are 3.3 metres wide, his neck is 3 metres long, his shoulders are 24 metres wide, and his fingers are 8.3 metres long. and 100 people can sit on his feet. The tallest building in Leshan stands at 68 meters, which is lower than the 71-meter Buddha, showing the local people's respect for Buddha.

## **CONSTRUCTION:**

Leshan's red sandstone is a good material for sculpture because it is softer than granite. At the confluence of the Min, Qingyi, and Dadu rivers, the Leshan Giant Buddha was carved into the cliff.

## **REASON BEHIND ITS CONSTRUCTION:**

A monk named Hai Tong initiated the construction of this statue. The safety of the locals living near the three rivers was a concern for Hai Tong. He thought that Buddha would calm the turbulent waters that troubled the river's shipping vessels.

## **SIGNIFICANCE:**

The drainage system built with the statue is the glory of this old engineering. This actually prevents the soil from eroding, allowing the structure to stand the test of time. Behind the Buddha's head and between his two ears is a cleverly engineered drainage system. This crucial design feature is the reason why, the big Buddha of Leshan has not deteriorated despite being thousands of years old, . The "spectacle"

The gigantic statue, it turns out, resulted in so much stone being removed and deposited into the river below that the currents were indeed altered by the statue, making the water safe for passing ships, just as Haitong planned.

The Leshan Giant Buddha is an engineering marvel as well as an architectural marvel, with a clever drainage system carved into various places on the body to transport away precipitation and reduce weathering

### **INTERESTING FACT:**

For the local people, the Leshan Giant Buddha has been both sad and happy: The Buddha is reported to express emotions in response to various historical events. He showed these feelings by closing his eyes when he was upset or smiling when he was pleased with a circumstance. However, it has now been established that this strange occurrence was caused by terrible weather, air pollution, and people's imaginations.

### **CONCLUSION:**

The Leshan Giant Buddha is one example of the fusion of art, religion, and culture you'll find there, making it a popular tourist destination and an amazing marvel that people would not want to miss paying a visit and exploring it.

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## ITAIPU DAM

-BY SIDHARATH K SHAH

IV year



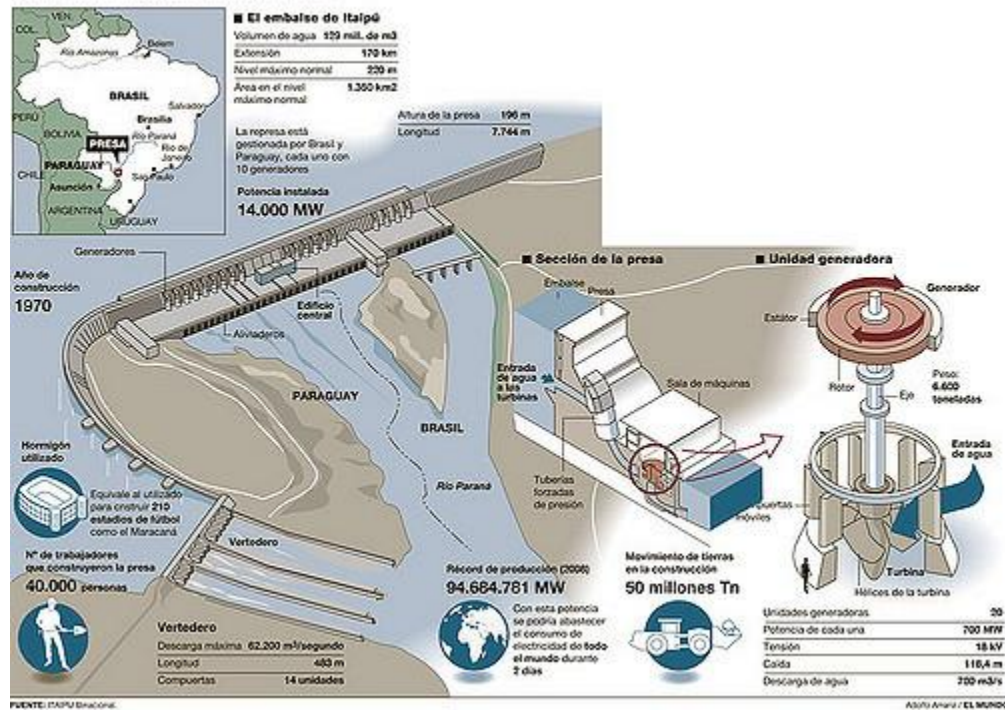
### Design and Construction of Itaipu Dam

#### Itaipu Dam

**Itaipu dam is the world's most powerful dam** built in Brazil in 1984. In 1994, the American Society of Civil Engineers selected the Itaipu Dam as one of the Seven Wonders of the Modern World.

## La gran presa de Itaipú

La represa hidroeléctrica de Itaipú es la primera en tamaño de operación, superando incluso a la futura presa de 'Las tres Gargantas' en China.



## Start of the project

Itaipu dam is the world's most powerful dam built in Brazil in 1984. In 1994, the American Society of Civil Engineers selected the Itaipu Dam as one of the Seven Wonders of the Modern World.

It was supposed to generate 90,000 Giga Watts of electricity each year. In 2000, the generating capacity of Itaipu reached 93.4 billion kilowatt-hours (kWh), which supplied 93% of the energy consumed by Paraguay, and 20% of that of Brazil. The frequency of generated electricity is 50 Hz but on Brazilian side a power converter transmits the 50 Hz into 60 Hz, which is the Brazilian grid frequency.



This amount of electricity generated is so high that it can fulfill London's electricity needs continuously for 3 years. The project cost was estimated at that time to be 13.5 billion pounds and was completed in 7 years by an army of 40,000 workers who took part in the project, of which 149 died in accidents during the construction of the dam.

The key consultant engineer for the project was an Italian engineer named Piero Sembenalli. The dam design showed that it was 18 times larger than Hoover dam in USA and 9 times heavier than that. Moreover it produced 6 times more electricity than Hoover dam in USA Constructed on the bed rock of river bed.

River was re-routed for the Itaipu dam. A 2km long and 80m deep channel was dug. It was biggest diversion canal ever attempted. Mechanical diggers were used to dig the diversion canal and it took three years for this channel to be completed. Reservoir of the Itaipu dam is 100 m (330 ft) deep and has a size equal to the area of Chicago. Its area reaches 1 350 sq. km, its length 170 km and its average width 7 km.

The Population displaced for the project was about 10,000 families. For compensation of the displaced people photographic survey was done but the results were not accurate and precise so a door to door survey was conducted. The newly dug channel was used on 20th Oct, 1978 by blasting the concrete blocks. Only half of the river was diverted so cofferdams were built in the way of previous flow.

Coffer dam's stability was also checked by another engineer against torrential rains of Brazil and River Parana's Floods 400 m height was needed for the dam to produce the promised electricity Note: Higher the height of the dam walls more is the produced electricity But the river bed was only 50 m deep. Solution was to built a series of secondary dams running across the valley for 7 km.

An army of workers was needed for this purpose. Workers were collected from all over Brazil- about 40, 000 of them. For these workers new houses hospitals, schools, parks and churches were built. Dam design showed that it was not to be supported by natural or physical features, instead it was to be made so heavy that water would not move it. Thus it had to weigh 61 million tons and Itaipu dam was named Gravity dams. Natural physical features also support Hoover dam. The base of dams was wider and stood on sound solid foundations. The walls were made hollow and machinery and powerhouses were also installed therein to make the structure economical. During construction, in June 1979, weak layer of crumbling rock was discovered in the bedrock. The crushing rock was drilled out and replaced with a massive filling of 10 million pounds concrete of extra strength.

The project was late by a few months because tunnels were dug to investigate the crumbling rock, which was right below the dam walls weighing 11 million tons. Water pressure at the wall was estimated to be equal to 4000 bulldozers pushing against them Huge steel structures were erected to be filled in by concrete. As block of concrete were very large, heat of hydration was also to be very large so aggregate was washed with ice and 4° C concrete was produced and temperature only reached 7° C during pouring.

If concrete was to be poured the usual way it would not set properly because blocks of concrete were very large, heat of hydration produced was also to be huge, causing cracks to appear in the block boundaries, resulting in weakened concrete. Moreover, temperature of Brazil was also 40°C and during usual setting of concrete the temperature would thus have reached 90° C due to heat of hydration, causing weak spots in dam. Sun dried concrete is weaker so large-scale refrigeration plants were installed to ensure maximum strength of the concrete blocks.



Capacity of the refrigeration plants was equal to 50,000 domestic deep freezers.

The reservoir was the filled up with water by re-diverting the river. It took 14 days for the river Parana's water to completely fill the reservoir up to a depth of 100m. To stop the overflow of dam, spillways were built and designed to cope with 64 million liters/second of water. When first tested it was the biggest man made water fall ever. It was 22 times larger than the Niagara Falls in Canada. To dissipate the energy of high thrust water, a slope (jump) was provided at the end.

The water from the spillway had a high thrust and when if it were left to go directly down the stream it would have caused the production of high-energy waves, hence flooding. So, the water was thrown into the air. Hydraulic Engineers found out the angle of jump by scaled models. Each turbine was 800 tons and transported by specially built vehicles. Electricity was planned to be transferred 1000 km away to Sao Paulo and Rio de Janeiro.



## **Interesting facts about Itaipu Dam**

The total length of the dam is 7235 m, with the crest elevation of 225 m. It is actually several dams joined together - from the far left, an earthfill dam, a rockfill dam, a concrete main dam, and a concrete wing dam to the right.

The maximum flow of Itaipu's fourteen segmented spillways is 62.2 thousand cubic metres per second. It is equivalent to 40 times the average flow of the Iguazu Falls.

The flow of two generators ( $700 \text{ m}^3 \cdot \text{s}^{-1}$  each) is roughly equivalent to the average flow of the Falls ( $1500 \text{ m}^3 \cdot \text{s}^{-1}$ ).

If Brazil were to use Thermal Power Generation to produce the electric power of Itaipu, 434,000 barrels ( $69,000 \text{ m}^3$ ) of petroleum would have to be burned every day.

The dam is 196 metres high, equivalent to a 65-story building.

## **Environmental Impact of Itaipu Dam**

129 species of birds

32 species of mammals

9 species of reptiles

And, about 40,000 people were displaced

## **Speed of Construction of Itaipu Dam**

With the speed of work that Itaipu dam was built, 20 story buildings could have been made in just 55 minutes.

140 tons of concrete trucks every 20 minutes were needed to fulfill the concrete needs of the dam.

40,000 workers were working day and night to make this megastructure a reality.

The course of the seventh biggest river in the world was shifted; as was 50 million tonnes of earth and rock

The amount of concrete used to build the Itaipu Power Plant would be enough to build 210 football stadiums the size of the Estádio do Maracanã.

The iron and steel used would allow for the construction of 380 Eiffel Towers. The volume of excavation of earth and rock in Itaipu is 8.5 times greater than that of the Channel Tunnel and the volume of concrete is 15 times greater.

### **End of the project**

Project was completed on May, 1984. The electric power cables were of such a length that they could run 1-1/2 times around the globe.

Run and Maintained by Itaipu Binacional Company

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## WHAT'S NEXT??

**-KAMALESWARI T  
(Alumini 2016-2020)**

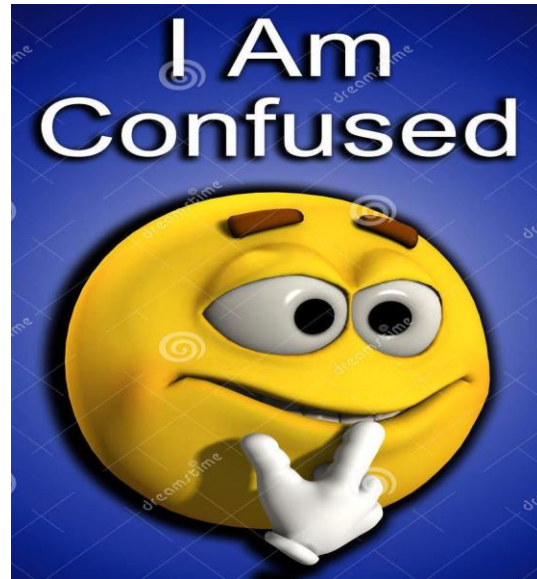


After being in the education system your whole life, college graduation marks the real transition as a professional. Everyone feels the anxiety of looking for a job, pursuing higher studies and possibly moving to a different city. **Whatever the situation, the nervousness of moving into the professional world is normal.** However, that doesn't make the process any less scary.

When I was in college, am constantly thinking of the excitement (and dread) of graduating. When people said your time in college will flash before your eyes, I nodded but didn't really understand how fast. **I still feel like I am in my first year sitting in the front bench.**

When I reminisce about my four years of college life in SSN, I see the transferable set of competencies that got build up over a period of time in me. I will definitely not talk about the knowledge piece here but I would like to talk about the skills and mindsets that help to raise the bar of excellence.

## Finding an answer to the question, “What am I going to do after college?”



For those who are reaching the end of college, the question, "What am I going to do after college?" is playing on a repeating loop. For some of us, the answer is getting a job. For others, it's going to higher studies. And for majority of others, there is no answer.

In the learning process of navigating life after college, I learned that you must decide what you want to do and determine your values in life (family, friends, opportunities etc). These two simple factors help determine your career path and narrow your options.

Personally, I don't know what my life after graduation looks like. After all my worry and panic, I finally accept the fact that like every other person on the planet needs to get a job. Even if it is not your dream job right out of the gate, it's okay. Not everyone gets their dream job, and certainly not right out of college. But we will get there someday. You didn't come all this way for nothing. This realization helped lower my anxiety and also to choose a correct path for my career. There are a lot of tips to help us after graduation but none of them guarantee the perfect life full of unregretful choices. All those adults we look up to in our life were once in our shoes. They encountered the same hard decisions and they turned out alright. I learned that despite all the decisions, nothing lasts forever.

For those feeling the anxiety around graduation, **I want to say to go with your gut feeling and have fun like no one's watching.** I know COVID ruined the ultimate college experience for lot of you, but I also think that everything happens for a reason. Many elements are out of our hands. Our only option is just to go along for the ride. "We don't grow when things are easy; we grow when we face challenges." I resonate completely with this adage. Work hard and create life-long memories.

When transitioning into college, we felt the excitement and nerves going into a new phase in our lives. We figured it out with mistakes along the way towards the end. Finally, in order to succeed, young professionals themselves must also be willing to take the time and effort necessary to master the transition from school to word.

This could mean reaching out to other more experienced friends or family members to learn about what helped them manage their transition. It also could mean recognizing which soft skills they are lacking and developing a plan to improve them. Because in the end, what we found in our work is that the book smarts students have received from their college education will only get them so far.

## Design and Building System Authoring (Structural Modelling SAS)

Mr. Agadi Kishan M. Tech,  
Structural Engineer,  
Directorate of Municipal Administration, Bangalore, Karnataka.

### Abstract

Building information modelling is a comprehensive information management and analysis technology that is becoming increasingly essential for academic education. Architecture, engineering, and construction (AEC) schools implemented a variety of pedagogical methods for introducing BIM into their curriculums. Several academic institutions have integrated BIM in their curricula using different approaches; however, there is no commonly agreed on methodology for teaching BIM in AEC programs (Barison and Santos, 2010).

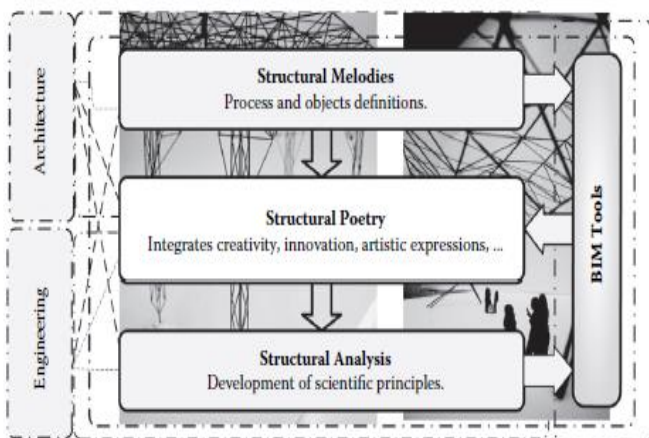
Building structures are, and have always been, essential components of building design. This is attributed to the roles and meanings of safety, economy, and performance of buildings to the society at large. In fact, the roles of structures are constantly changing in terms of shaping certain quantities of materials and making them support the architecture against gravity and other environmental forces (Addis, 2007). Structural analysis courses at the undergraduate level focus mostly on computation and understanding the principals of statics and strength of materials, without stressing the importance of understanding conceptual behaviours of structural systems and their aesthetic implications. The relationship between structure and architecture is therefore a fundamental aspect of the art of building.

With recent technological advancements, engineers and architects have smarter tools to create and analyze artistically efficient structural forms and demonstrate how load combinations affect the stability and behaviour of a structure. Specifically, BIM has the potential to provide solutions to the issues related to the conceptual linking and integration between architectural and structural engineering principles and advance different types of structural knowledge-sharing objectives without compromising their distinct requirements. BIM is a process that fundamentally changes the role of computation in structural design by creating a database of the building objects to be used for all aspects of the structure, from design to construction, operation, and maintenance. The framework explores structural design as an art while emphasizing engineering principles; it thereby provides an enhanced understanding of the influence structure can play in creating form and defining spatial order and composition.

## Introduction

Structure is the main ingredient of architecture. In the contemporary sphere, it has acquired an independent personality, so that its own intimate aesthetic quality is highly valued. At the same time, structure must obey scientific and engineering laws to be correct. The separation between these aspects in practice has continued since the beginning of the Industrial Revolution, when structural engineering became a specialized field separate from architecture. The proposed framework aims to advance other types of structural knowledge that centre on how to engage the student's imagination and to use it no less creatively than a musician or artist producing ideas. On the other hand, structural correctness emphasizes the conceptual and quantitative engineering sciences of the structural design.

In structural design, the essential skill lies in choosing structural forms and arrangement that manage to satisfy, to varying degrees, many often-incompatible constraints. Building information modelling (BIM) tools as the framework enabler. Figure 1 depicts an overview of this framework. Without the traditional emphasis on first understanding beams, columns, footings, bearing walls, and so on two dimensionally, using the laws of statics and strength of materials, the framework emphasizes the building as a whole and creates a three-dimensional (3D) structural system using BIM tools and then develops them further into an actual architectural solution





## Objectives

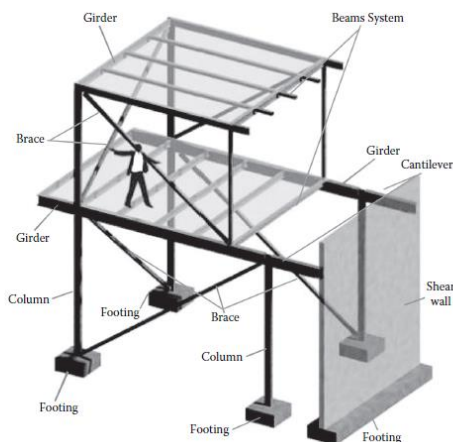
The proposed framework seeks to emphasize the value of these knowledge domains, specifically the interplay between architecture and structures as well as the qualitative understanding of structural behaviour.

- To have the chance to learn the fundamentals of BIM at an earlier stage of their current core curriculum.
- To explore structure as an art and thereby gain an understanding of the influence structure can play in creating form and defining spatial order and composition.
- To introduce to the vocabulary and hierarchy of a structural system, enabling structural decision making to be integrated early in the design thought process.
- The notion is established that structural analysis computation is primarily a tool to verify structural decisions rather than a design strategy.

## Structural Melodies

Structural melody is the first basic component of the SAS framework. Its initial goal is to understand how linear, nonlinear, planar, and volumetric structural elements can be orchestrated to create spatial order. Structural melody deals also with the structural vocabulary, such as element names and their purpose, order, and hierarchy.

Structural melody introduces the language of structural design and therein introduces students to relationships between systems and details. It aims to provide students with the basic vocabulary and grammar for expressing design ideas.



Structural melody includes understanding various support patterns derived from basic linear, planar, and nonlinear elements and how these patterns respond to the functional organization of the buildings

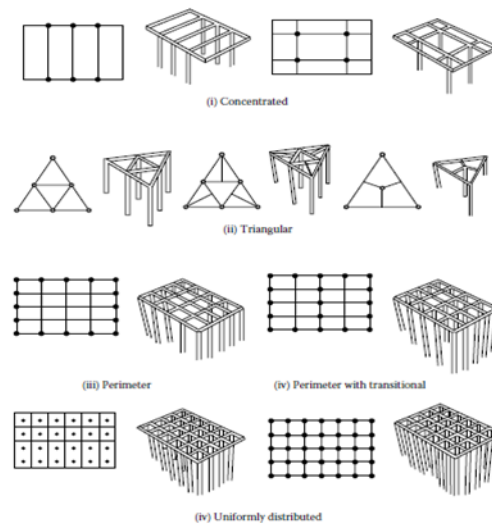


FIGURE 3 Structural melodies: linear vertical support patterns.

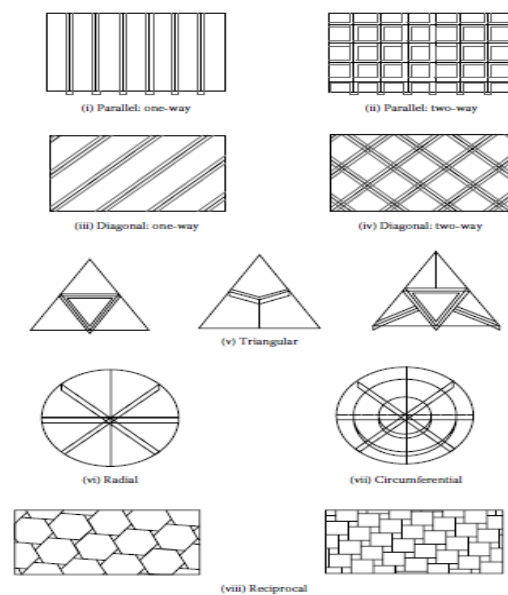


Figure 4 Structural melodies: surface support patterns.

## Structural Poetry

Structural poetry is the second component of the SAS framework. It is based on structural melody and aims to develop structural creativity and spatial thinking as well as enhance the conceptual design abilities using BIM tools.

In a more general sense, structural poetry strives to develop structural creativity and spatial thinking as well as enhance the conceptual design abilities. This allows you to develop an imaginative complex structural system without a thorough understanding of its individual components at the initial design stages.

Figure 4 shows the basic structural models or simply buildoids. These buildoids can grow horizontally and vertically to fulfil the desired programmatic objectives using BIM tools.

Structural poetry has a similar process that creates, elaborates, and maintains structural forms emerging from a starting buildoid. Figure 5a depicts the plan organizations and growth process as one of the expressions in structural poetry. Examples of the full models for such a process are displayed in Figures 6.

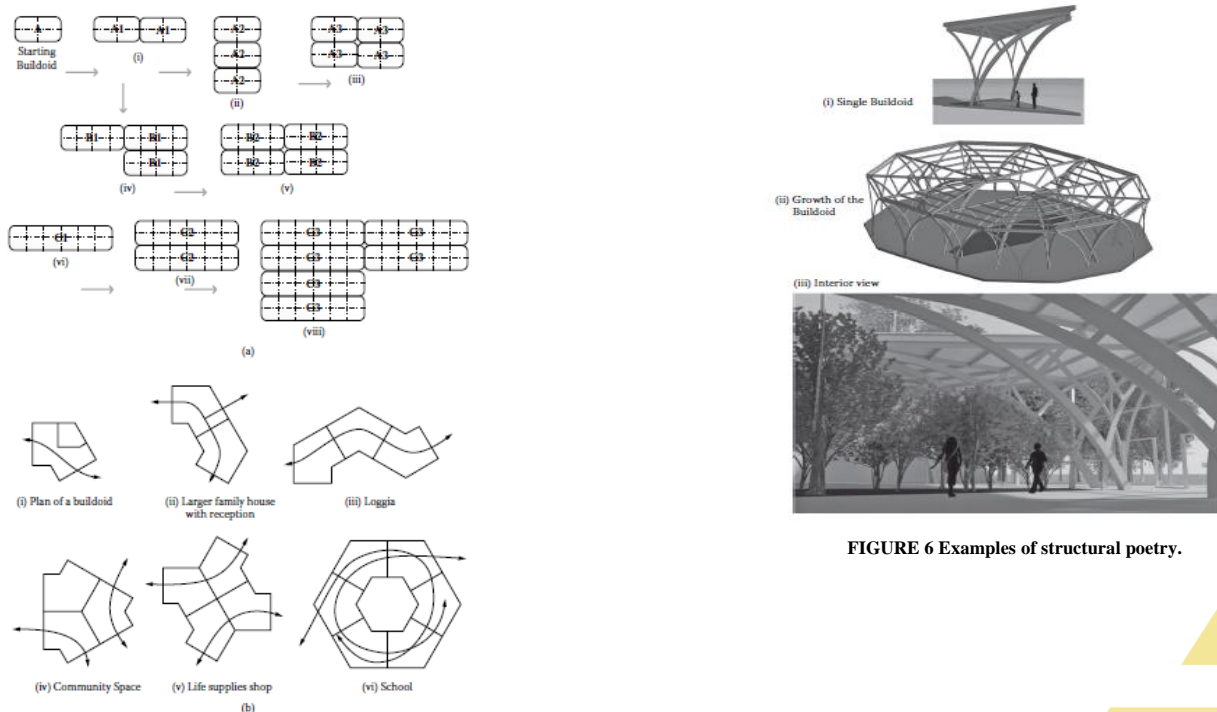
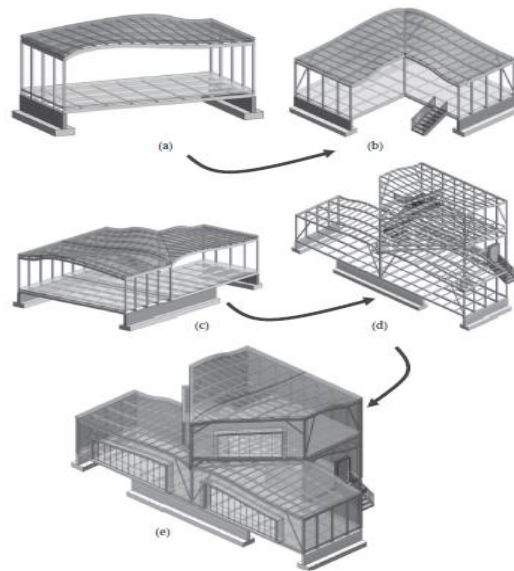


FIGURE 6 Examples of structural poetry.

## Structural Analysis

After completing structural melody and poetry phases, BIM models are subjected to structural analysis. Various analysis tools within BIM platforms will be introduced.

BIM tools used in this phase are principally the beam, truss, frame simulation, the load takedown, and the integration with robot structural analysis. The load takedown played an important role in introducing load path; load tracing, reactions, and constraints in building structures (see Figure 7). Furthermore, advanced topics such as nonlinear analysis and dynamic behaviour can be investigated using structural analysis tools that are fully integrated with BIM platforms.



**Figure 7** Progression in structural poetry. (a) Starting buildoid with nonlinear elements; (b) arranging two buildoids; (c) lateral growth: three buildoids; (d) vertical progression of (c); and (e) final stage: all main structural and architectural elements.

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## INTERNSHIP ARTICLE



### **Dr. Srinath Rajagopalan, Associate Professor, Department of Civil Engineering, SSN CE**

From the days of Gurukulam education through the industrial revolution to our modern times, the students need to augment their academic education with tutelage under experienced professionals. Industrial Training is an essential component in the development of the practical and professional skills required for an engineer and an aid to prospective employment. It should also be noted that developing an awareness of general workplace behavior and interpersonal skills is an important Industrial Training experience. Through these internships, students would be able to improve their knowledge and skills relevant to their areas of specialization and at the same time able to relate, apply and adapt relevant knowledge, concepts, and theories within an industrial organization, practice, and ethics. This process caters students, the opportunity to gain valuable applied experience and explore networks in professional fields they are considering for career paths, and gives employers the opportunity to guide and evaluate talent. This will not only help students in gaining professional know-how but also benefits, corporate on fresh perspectives on business issues and even discovering future business leaders

Our final year students (Batch 2018-2022) undertook internships in flagship companies including international companies such as Luca Industries International (a Germany-based company), DOW Chemicals, Larsen & Toubro Ltd, Akira entice Fustexo, government agencies such as Public Works Departments, consulting firms such as Deepwoods Green Initiatives Pvt Ltd, private construction companies and training institutes like CMTI and BIM Labs. We have received excellent feedback from the students and the host companies and plan to expand the list of companies for the upcoming years. We hope this symbiotic collaboration will be beneficial for both the institution and the participating companies.

# Thanking You, Team Edifice

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