

HORIZON

JAN- JUNE 2021

DEPARTMENT OF CIVIL ENGINEERING



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Jan-June 2021

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VISION & MISSION

Vision



To become a department of excellence in Civil Engineering education and research producing globally competent civil engineers to serve the industry and society.



Mission

- Providing state-of-the art resources that contribute to an excellent learning environment.
- Imparting necessary skills, cultivating moral and ethical values.
- Establishing regular interaction and collaboration with industries
- Motivating the students to take up competitive exams and pursue higher education.
- Promoting research and development activities in emerging areas of civil engineering and offering services to society and industry through education, research and consultancy activities



PROGRAMS ORGANIZED

AICTE Training and Learning (ATAL) Academy sponsored Online FDP on “**Earthquake Resistant Structural Systems and Design for Buildings and Structures**” was organised during 07/06/2021 to 11/06/2021.

Coordinators: Dr.R.Kumutha, Professor & HOD/Civil and Ms.Ruby Freya, Asst.Prof/Civil.

► Dr.K.Muthumani

Dean, School of Civil Engineering (SCE), VIT Chennai

► Prof. Katta Venkataramana

Department of Civil Engineering NITK Surathkal, Mangalore

► Prof. C. V. R. Murty, Professor, Department of Civil Engineering Indian Institute of Technology Madras.

► Dr. Dipendu Bhunia, Associate Professor,

Department of Civil Engineering BITS Pilani, Rajasthan.

► Dr. Ajay Chourasia Sr. Principal Scientist,

CSIR-Central Building Research Institute, Roorkee.

► Dr. M. N. Hegde Professor of PG (Structural Engineering)

Dr. Ambedkar Institute of Technology, Bengaluru

PROGRAMS ORGANIZED

- ▶ **Dr.S.Renukadevi Professor & Head,**
Department of Engineering Education, NITTTR, Chennai.
- ▶ **Dr.P. C. Ashwin Kumar Assistant Professor,**
Department of Earthquake Engineering, IIT Roorkee.
- ▶ **Dr.Jagabandhu Dixit Assistant Professor**
Department of Civil Engineering, Shiv Nadar University,
Greater Noida.
- ▶ **Dr.K.S.A.Dinesh Kumar Associate Professor,**
Department of Civil & Environmental Engineering,
NITTTR, Chennai.
- ▶ **Dr.K.Muthukumaran Professor,**
Department of Civil Engineering,NIT Trichy.
- ▶ **Prof. Hina Gupta Scientist,**
Structural Engineering Group
CSIR Central Building Research Institute, Roorkee

PROGRAMS ORGANIZED

Dr. Manjunath N. Hegde is presenting

Large panel systems

UP and common size

Precast floor slabs

Precast columns

Precast beams

Precast wall panels

PRECAST CONSTRUCTION

Pre Fab Buildings

Modularization

ATAL FDP Session 6 - Performance of Structu...

Katta Venkataramana is presenting

Vibrations of the earth surface caused by waves originating from a source of disturbance in the earth mass is called **EARTHQUAKE**.

Earthquake may be caused by volcanic eruption or by strain building process inside the earth mass.

UNPREDICTABLE

Upper mantle

Core

Lower mantle

Crust

Core

Inner Core

Outer Core

Its really **NOT** inside.....

Trench

SLAB PULL

Mid-ocean Ridge

Lithosphere

ASTHENOSPHERE

100 km

Outer core

Inner core

Katta Venkataramana

HOD Civil SVCE

Mr. Mohit Satani

Dr. Muralidhar N

Mr. Divraj Ramesh ...

104 others

ATAL FDP Session 2 - Engineering Seismolog...

PROGRAMS ORGANIZED

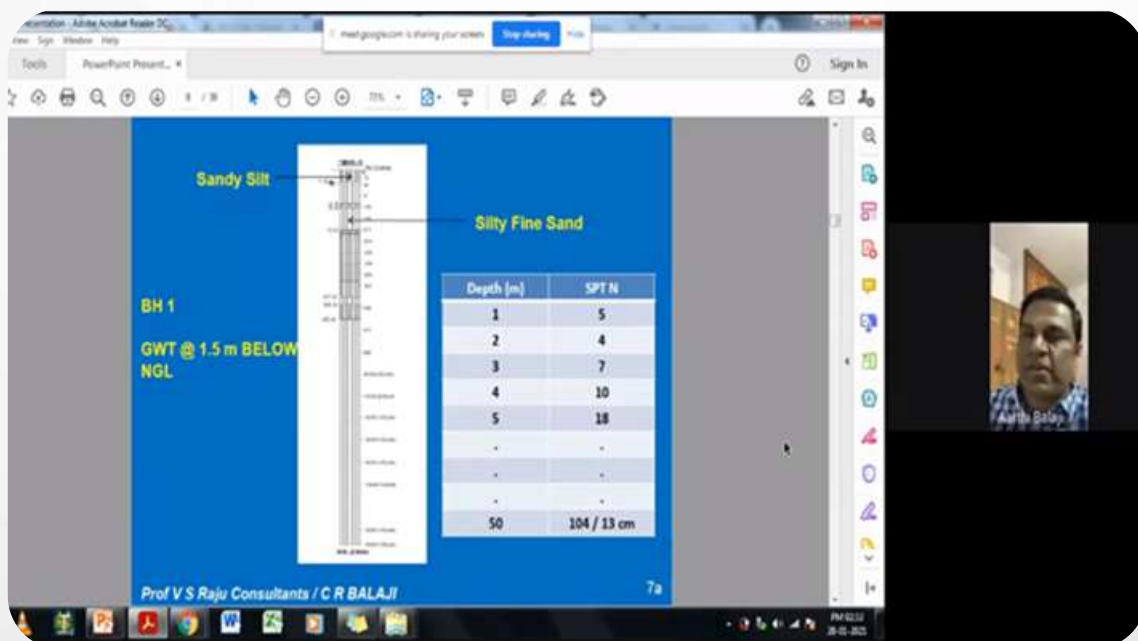
An International Webinar on “**Biomaterials in Construction**” by Prof. Jamal El-Khatib, Professor of Civil Engineering at Beirut Arab University (BAU) – Lebanon and Emeritus Professor of the University of Wolverhampton (UoW) – UK was organised for the industry persons, faculty members and students on 04/05/2021. Dr. R. Kumutha, HoD and Ms. Ruby Freya, Assistant Professor, have coordinated this program.



PROGRAMS ORGANIZED

Anna University Sponsored Six Days Online FDTP on the subject **"CE8502 – Structural Analysis I"** was organized during 14/06/2021 to 19/06/2021. Coordinators: Dr.R.Kumutha, Professor & HOD/Civil and Dr.R.Sathia, Associate Professor/ Civil.

A webinar on **"Recommendations Of Foundation For High Rise Buildings"** in association with Sai Cadd Center for civil engineering students of SVCE on 28/01/2021. Mr.C.R.Balaji, Advisor, SAI CADD delivered the presentation. The program was organised by Dr.R.Kumutha, Professor & Head/ Civil Engineering and coordinated by Mr. R. Kalaivannan, Assistant Professors of Civil Engineering Department.



PROGRAMS ORGANIZED

A webinar on “Career Opportunities In Rapidly Changing Built Environment Sector Post-Covid 19” in association with “School of construction, RICS School of Built Environment, Mumbai” for civil engineering students of SVCE on 25/02/2021. Prof. Vignesh Ayyadurai, School of Construction RICS School of Built Environment, Mumbai, delivered the presentation. The program was organised by Dr.R.Kumutha, Professor & Head/ Civil Engineering and coordinated by Mr. R. Kalaivannan, Assistant Professors of Civil Engineering Department

The screenshot shows a Zoom meeting interface. At the top, a video feed of Prof. Vignesh Ayyadurai is visible. Below the video, a presentation slide is displayed. The slide features the RICS School of Built Environment logo and the title 'Construction Project Life Cycle'. The main content of the slide includes a definition of the project life cycle and a circular diagram with three stages: Project Initiation, Project Planning, and Project Closure. Project Initiation is described as defining the nature and scope of the project. Project Planning is associated with 'Time, Manpower, Material, Machinery Money'. Project Closure is shown as the final stage in the cycle.

Click to save : [Icons]

Abh...
Kalaiva
RICS St
Vignes

Construction Project Life Cycle

Construction Project Life Cycle
► Project Life cycle is also known as Project Management Process

Defines the nature and scope of the project

Project Initiation

Time, Manpower, Material, Machinery Money,

Project Planning

Project Closure

PROGRAMS ORGANIZED

One day workshop on "3D Laser scanning & its applications" was organised in association with FARO Technologies. The program was organised by Dr.R.Kumutha, Professor & Head/ Civil Engineering and coordinated by Mr. R. Kalaivannan, Assistant Professors of Civil Engineering Department on 17/02/2021



PROGRAMS ORGANIZED

A Five days Faculty Development Program on “**Land Surveying Using Total Station**” was organised for the faculty and supporting staff members during 08/03/2021 to 12/03/2021. FDP was organised by Dr.R.Kumutha, Professor & Head/ Civil Engineering and coordinated by Mr. R. Kalaivannan, Assistant Professor of Civil Engineering Department.



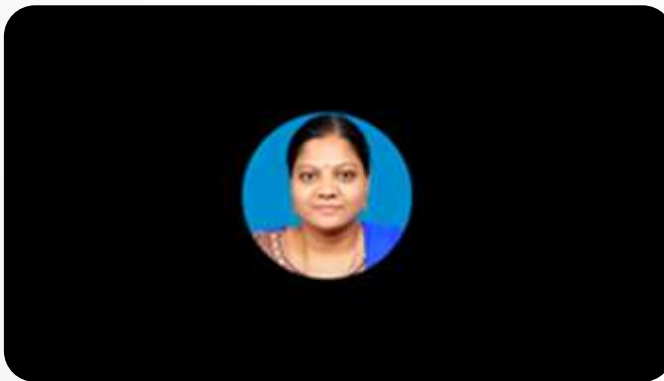
PROGRAMS ORGANIZED

Dr.B.P.Naveen, Associate Professor and Head, Department of Civil Engineering, Amity University, Haryana delivered a Webinar on “**Pile Design and Construction Practice For Metro Projects**” on 16/04/2021 from 10 A.M to 11 A.M. The program is organized by Dr.R.Kumutha / Professor & Head / Department of Civil Engineering and coordinated by Mr.S.Hariswaran / Assistant Professor / Department of Civil Engineering. The webinar was attended by 62 participants which included faculties and students from the Department of Civil Engineering.



PROGRAMS ORGANIZED

A Webinar on “**MATLAB in Civil Engineering**” in association with MATHWORKS India was organised for the faculty members and students on 27/05/2021. Dr. R. Kumutha, Prof/HOD has organised and Ms. K. SathyaPriya, Assistant Professor, has coordinated this program.

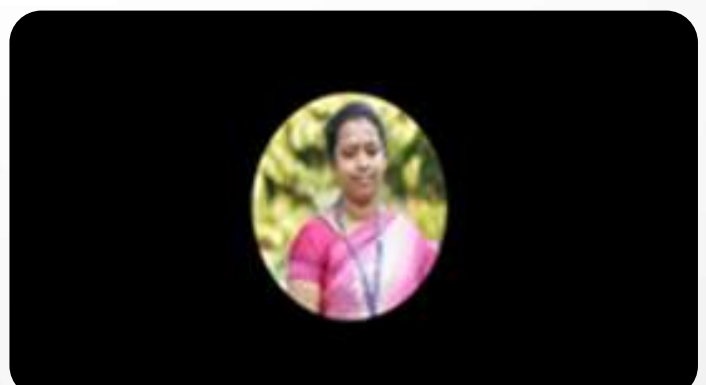


Civil engineering dept: what we've heard

1. I used MATLAB 20 years ago
 => It really isn't appropriate for CIVIL engineering
2. MATLAB is a programming language
 => Civil engineering students often do NOT like programming
3. MATLAB is difficult to use

4. I'm too busy to keep up on MATLAB
 => EXCEL is appropriate
5. My classes involve simple calculations
 => There's just no need to use MATLAB
6. We use specialized CAE tools that industry uses
 => There just isn't any benefit to using MATLAB
7. Learning is done by practicing with Pen and paper
 => There just isn't any other way

How does MATLAB enhance the learning experience for my students?



PROGRAMS ORGANIZED

A Webinar on “**Analysis and Design of Steel Pre Engineered Buildings**” in association with LSB Temerity Infra Pvt. Ltd., Hyderabad was organised for the industry persons, faculty members and students on 29/05/2021. Webinar was delivered by G. Siva Rami Reddy, Director, LSB Temerity Infra Pvt. Ltd., Hyderabad. Ms. Ruby Freya, Assistant Professor, has coordinated this program.

DESIGN ASSUMPTIONS



- ❑ Main Frame Rafter and Columns Rigidly Connected
- ❑ Column Base is Pinned – Height 10 to 12 m
- ❑ Lateral Stability of the Structure is Provided by Portal Action of the Main Frame
- ❑ Longitudinal Stability of the Structure is Provided by Cross Bracing
- ❑ Roof Purlins are Continuous Beams Supported on Rafters
- ❑ Side Runners are Continuous Beams Supported on Columns





Siva Rami Reddy

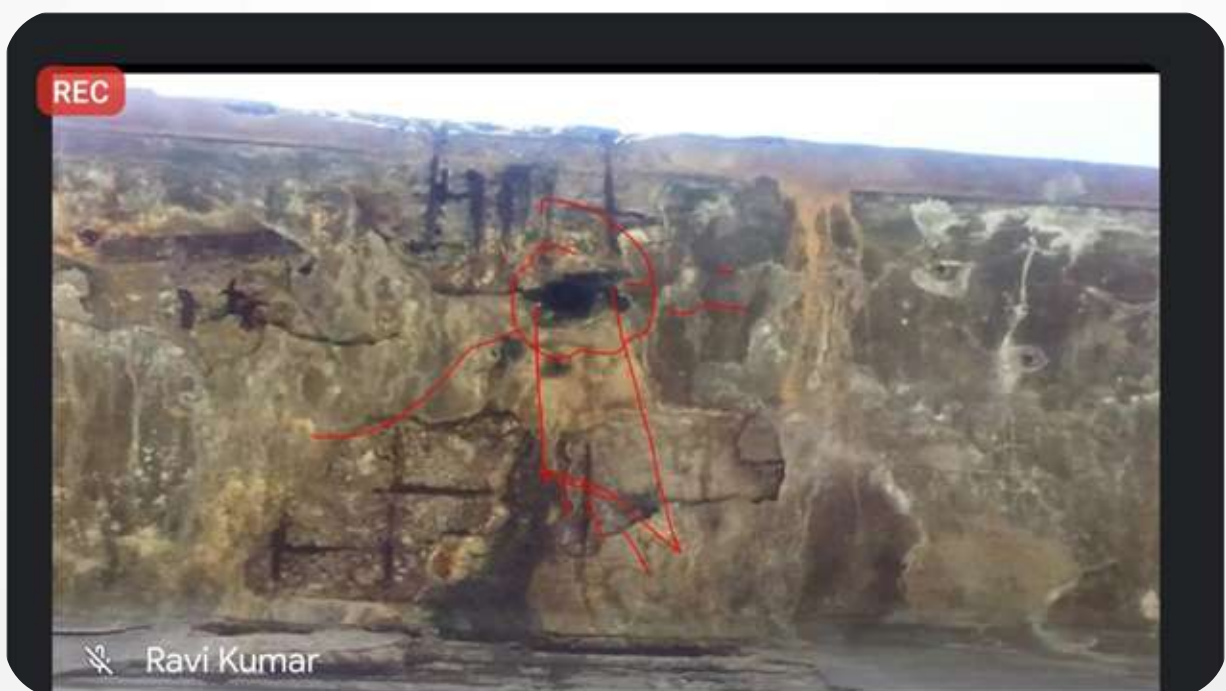
PROGRAMS ORGANIZED

Dr. Shyamala K. Mani, Sr.Advisor, WASH and Waste Management, CEH, Public Health Foundation of India (PHFI), Professor (Retd.) and Advisor, MPD 2041, SBM(U) & Climate Centre for Cities, National Institute of Urban Affairs (NIUA) has delivered a lecture on “**Municipal solid waste management in India**” on 01/06/2021 Organised by G. Arun, Assistant Professor.



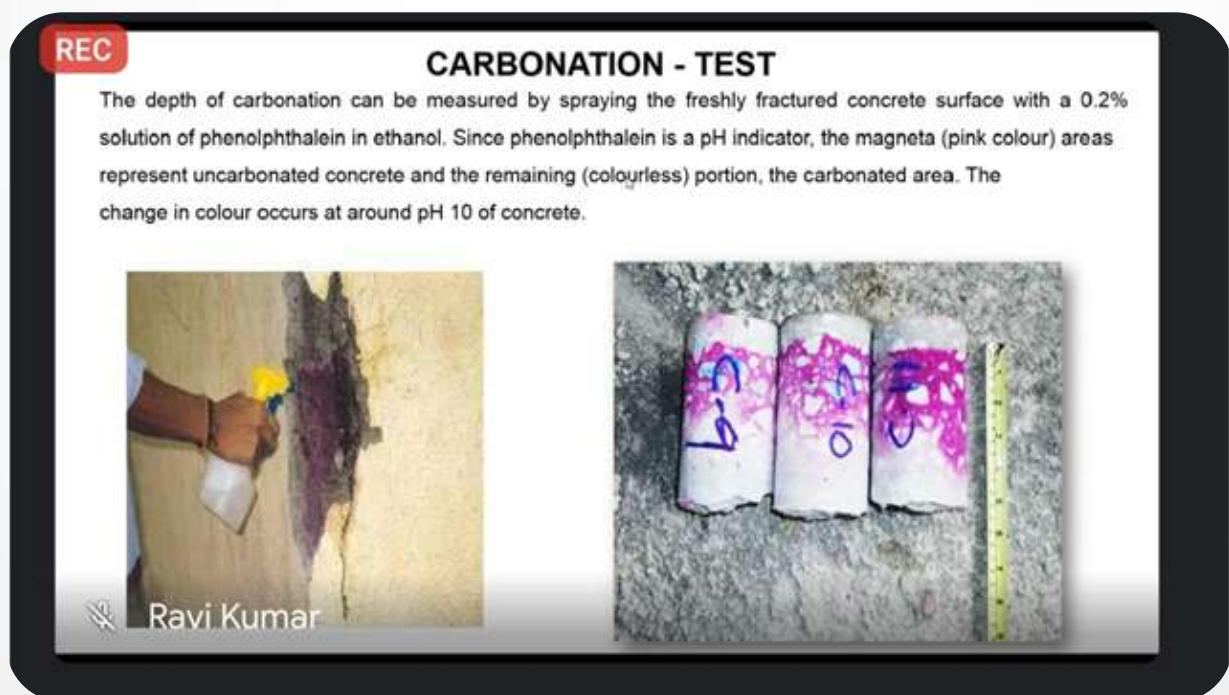
PROGRAMS ORGANIZED

.A Guest Lecture was delivered on “**Maintenance & Repair Strategies**” by Mr.M.Ravikumar for final year students on 26/01/2021. Mr.M.Ravikumar currently working as a Deputy General Manager, L&T Infrastructure Development Projects Ltd, Chennai. The program was organised by Dr.R.Kumutha, Professor & Head/Civil Engineering and coordinated by Mr. A.Vijay Vignesh, Assistant Professor of Civil Engineering Department.



PROGRAMS ORGANIZED

A Guest Lecture was delivered on “**Non-Destructive Testing Techniques**” by Mr.M.Ravikumar for final year students on 30/01/2021. Mr.M.Ravikumar currently working as a Deputy General Manager, L&T Infrastructure Development Projects Ltd, Chennai. The program was organised by Dr.R.Kumutha, Professor & Head/Civil Engineering and coordinated by Mr. A.Vijay Vignesh, Assistant Professor of Civil Engineering Department



PROGRAMS ORGANIZED

A Guest Lecture was delivered on “**Strengthening of Structural Elements**” by Mr.M.Ravikumar for final year students on 07/02/2021. Mr.M.Ravikumar currently working as a Deputy General Manager, L&T Infrastructure Development Projects Ltd, Chennai. The program was organised by Dr.R.Kumutha, Professor & Head/Civil Engineering and coordinated by Mr. A.Vijay Vignesh, Assistant Professor of Civil Engineering Department

REC is a Shear Wall?

Shear wall is a structural member in a reinforced concrete framed structure to resist lateral forces such as wind forces, Earthquake. Shear walls are generally used in high-rise buildings subject to lateral wind and seismic forces.

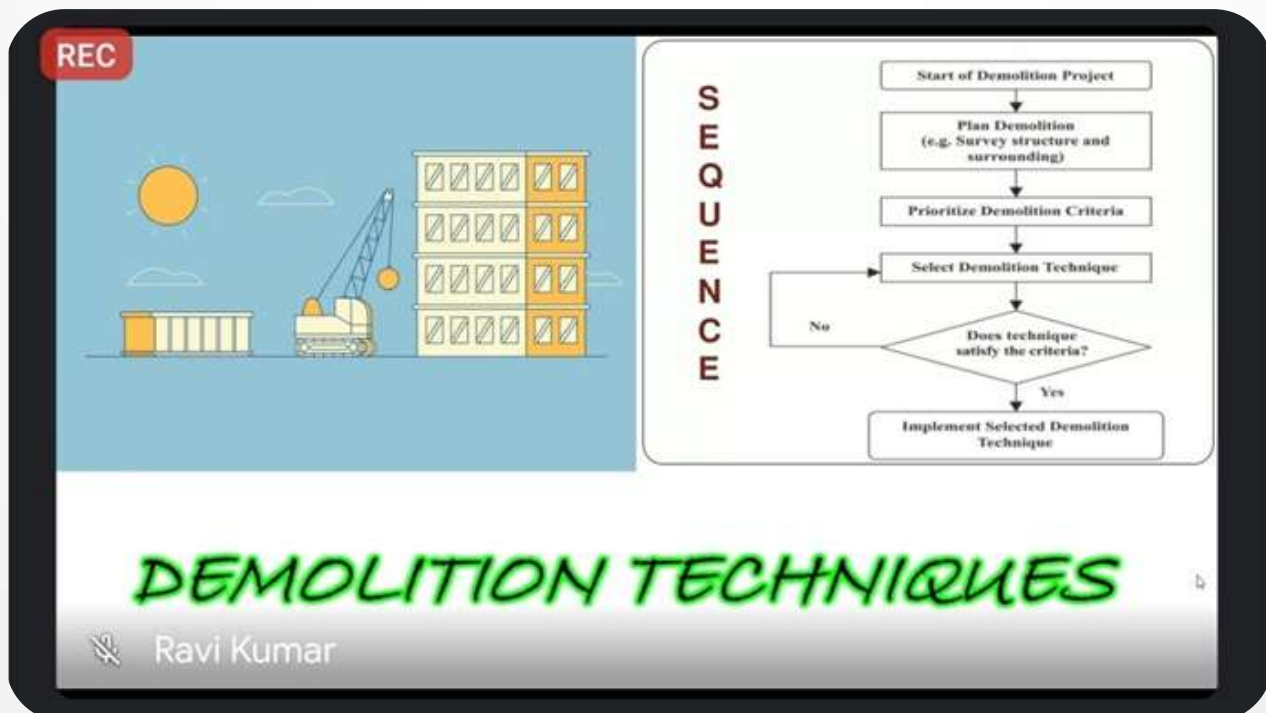
In reinforced concrete framed structures the effects of wind forces increase in significance as the structure increases in height.

- Generally, the relative lateral deflection in any one storey should not exceed the storey height divided by 500.
- RCC Shear walls carry earthquake loads down to the foundation. They provide large strength and stiffness to buildings in the direction of their orientation.

Ravi Kumar

PROGRAMS ORGANIZED

A Guest Lecture was delivered on “**Special Concretes**” by Mr.M.Ravikumar for final year students on 13/02/2021. Mr.M.Ravikumar currently working as a Deputy General Manager, L&T Infrastructure Development Projects Ltd, Chennai. The program was organised by Dr.R.Kumutha, Professor & Head/Civil Engineering and coordinated by Mr. A.Vijay Vignesh, Assistant Professor of Civil Engineering Department



REC

Start of Demolition Project

Plan Demolition (e.g. Survey structure and surrounding)

Prioritize Demolition Criteria

Select Demolition Technique

Does technique satisfy the criteria?

Implement Selected Demolition Technique

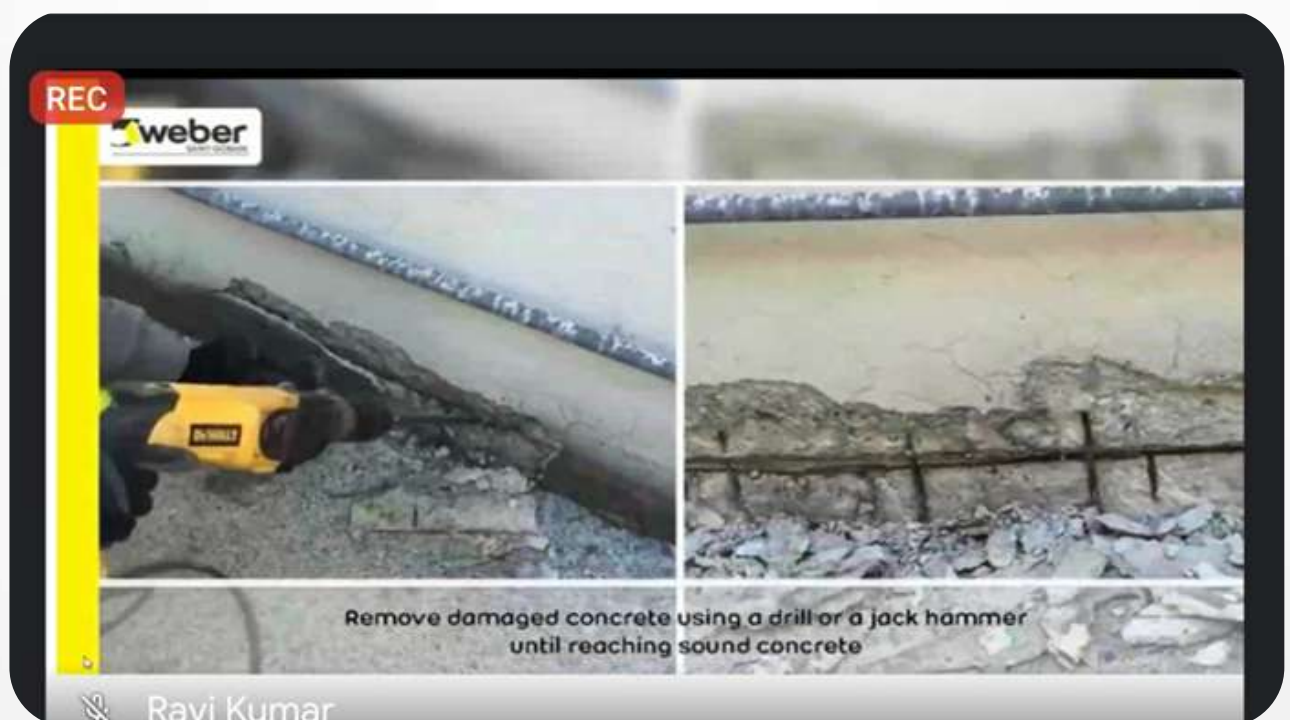
SEQUENCE

DEMOLITION TECHNIQUES

Ravi Kumar

PROGRAMS ORGANIZED

A Guest Lecture was delivered on “**Demolition Techniques**” by Mr.M.Ravikumar for final year students on 20/02/2021. Mr.M.Ravikumar currently working as a Deputy General Manager, L&T Infrastructure Development Projects Ltd, Chennai. The program was organised by Dr.R.Kumutha, Professor & Head/Civil Engineering and coordinated by Mr. A.Vijay Vignesh, Assistant Professor of Civil Engineering Department.



LECTURES DELIVERED

- Dr.R.Kumutha delivered a guest lecture on **“Geopolymer Concrete Applications, Challenges and Opportunities”** organised by the Department of Civil Engineering, Jayalakshmi Institute of Technology, Dharmapuri on 10/04/2021 between 10 am to 11 am through online mode.
- Dr.R.Kumutha, Professor & Head/Civil delivered a lecture on **“Rubrics and Outcomes Assessment ”** on 25/06/2021 in the AICTE Sponsored online two weeks Faculty Development Programme (Phase III) on Teaching Learning methods towards Outcome Based Education held during 14th June to 26th June 2021, organised by Velammal Institute of Technology, Chennai
- Dr.P. Venkateswara Rao, Professor delivered a lecture on **“Magnetorheological materials for seismic isolation application”** on 05/06/2021 in the two day national level webinar on “Latest materials and Methods for structural engineers” held on 05/06/2021 & 06/06/2021, organized by Siddharth Institute of Engineering & Technology, Puttur, Andhra Pradesh.

LECTURES DELIVERED

- Mr.S.Hariswaran, AP, Civil acted as Session Chair in the International Conference on "Emerging Technologies and Adaption in Geotechnical Engineering - ICETAGE 2K21" held on 08/05/2021 organized by the Department of Civil Engineering, Meenakshi Sundararajan Engineering College. Theme of the Session : Advances in Civil and Infrastructure Engineering".
- Dr.M.Selvakumar chaired a session in the International Conference on Green Materials and Renewable Energy (ICGMRE) conducted at SVCE during June 11th&12th, 2021.

GRANTS RECEIVED

- Dr.R.Kumutha, Professor &HoD and Dr.R.Sathia, Associate Professor has **received a grant of Rs.30,000/-** on 24/04/2021 from the Centre for Faculty Development, Anna University Chennai for conducting 6 Days Online FDTP on "**CE8502 -Structural Analysis I**" during 14th to 19th June 2021.
- Dr.R.Kumutha, Professor & Head/Civil received a grant of Rs.93,000 from AICTE Training and Learning (ATAL) Academy for conducting an Online FDP on "**Earthquake Resistant Structural Systems and Design for Buildings and Structures**" during 07/06/2021 to 11/06/2021.
- Mr.V.Praveen Kumar, Mr.K.Arun, Mr.K.Karan and Ms.P.Monika, final year students received an amount of Rs.10,000/- from SVCE for the project titled "**Development of Low Carbon Footprint Lightweight Geopolymer - Fiberglass roof panels**" under Intramural Research Scheme under the mentorship of Dr.R.Kumutha, Professor &HoD/Civil Engineering.



CONFERENCE PUBLICATIONS

- Dr.R.Kumutha has presented a paper titled **“An experimental study on Strength and Durability for utilisation of Rice Husk Ash in Geopolymer Concrete”** in the 1st International Conference on Advances in Construction Materials and Management (ACMM2021) organised by the Department of Civil Engineering, SRM Institute of Science and Technology in virtual mode on 25/03/2021 & 26/03/2021.
- Dr.R.Sathia has presented a paper titled **“Limestone Calcined Clay Cement (LC3) for sustainable Construction - A Review”** in the International Conference on Sustainable Materials & Technologies for Bio & Energy Applications (SMTBEA-2021) organised by the Sivasubramaniya Nadar College of Engineering (SSN) in virtual mode on 19/05/2021 to 21/05/2021.
- Ms. Ruby Freya presented a paper on **“Study on the Properties of Shear Thickening Fluid in Structural Dampers”** in the online International Conference on Green Materials and Renewable Energy (ICGMRE) conducted at SVCE during 10/06/2021 & 11/06/2021.
- Dr.R.Kumutha published a paper titled **“Influence of Rice Husk Ash on Engineering and Durability Properties of Geopolymer Concrete”** in the Proceedings of Virtual International Conference on Sustainable Building Materials and Construction (ICSBMC -2021) organized by the Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat during 04/02/2021 to 06/02/2021.

PAPERS REVIEWED

- Dr.R.Sathia reviewed two manuscripts submitted to the **International Conference SPICE 2021** held on 19/03/2021 and 20/03/2021 organized by the Department of Civil Engineering, SSN College of Engineering.
- Dr.M.Selvakumar reviewed a technical paper entitled 'Evaluating Rail Surface Roughness from Axle-box Acceleration Measurements' for **Journal of Transportation Engineering, Part A Systems (ASCE)**.

FACULTY DEVELOPMENT

- Mr. A. Vijay Vignesh attended a 5 days AICTE ATAL sponsored FDP on “**Sustainability Engineering**” from 4th to 8th January 2021, organized by CMR Institute of Technology.
- Ms. Ruby Freya participated in an “**online training program on Green Buildings - Practices**” from 16/02/2021 to 20/02/2021 organised by SSN IGBC and CMTI.
- Mr G. Arun participated in an “**online training program on Green Buildings - Practices**” from 16/02/2021 to 20/02/2021 organised by SSN IGBC and CMTI.
- Mr.A.Vijay Vignesh attended a webinar on “**Work Breakdown Structure**” conducted by Construction Management Training Institute on 05/02/2021.
- Mr.A.Vijay Vignesh attended a webinar on “**Indian Standards for Glass and Glazing**” organised by BIS, Glazing Society of India, CSIR, IITM on 26/02/2021.
- Mr. R.Mathiyazhagan, Mr.S.Hariswaran Mr.S.Diravia Balan, Mr. G. Arun and Ms. K. SathyaPriya attended Five Days Faculty Development Programme on “**Land Surveying Using Total Station**” organised by Department of Civil Engineering, SVCE from 08/03/2021 to 12/03/2021.

FACULTY DEVELOPMENT

- Mr.A.Vijay Vignesh attended a webinar on “**Clean Water and Sanitation**” organized by Institution of Engineers (India), NSDF Shimla on 17/03/2021.
- Mr.A.Vijay Vignesh attended a lecture on “**Motera Stadium**” organized by Aakaar IIT Bombay on 20/03/2021.
- Mr.R.Mathiyazhagan attended a webinar on “**Pile Design and Construction Practice For Metro Projects**” on 16/04/2021 organized by the Department of Civil Engineering, SVCE.
- Dr.P. Venkateswara Rao attended a webinar on “**Pile Design and Construction Practice for Metro Projects**” on 16/04/2021 organized by the Department of Civil Engineering, SVCE.
- Mr.A.Vijay Vignesh attended a webinar on “**How to become an Entrepreneur & Develop Startups**” organized by Entrepreneurship Development Cell in association with MHRD’s Innovation Cell and Institution’s Innovation Cell on 20/04/2021.
- Mr.A.Vijay Vignesh attended a webinar on “**Deep Decarbonisation of Buildings, Cities and Our Built Environment**” organized by the Department of Civil Engineering, Presidency University on 22/04/2021.
- Dr.R.Sathia attended a webinar on “**Advances in Pre Engineered building**” on 22/05/2021, organized by the Department Civil Engineering and the FORCE- Forum of Civil Engineering of Presidency University, Karnataka.

FACULTY DEVELOPMENT

- Dr.R.Sathia participated in the International Webinar on “**Biomaterials in Construction**”, delivered by Dr. Jamal El-Khatib, Professor of Civil Engineering, Beirut Arab University, Lebanon, held on 04/05/2021 at SVCE.
- Dr.P. Venkateswara Rao participated in the International webinar on “**Biomaterials in construction**”, delivered by Dr.Jamal El-Khatib, Professor of Civil Engineering, Beirut Arab University, Lebanon held on 04/05/2021 at SVCE.
- Mr. R.Mathiyazhagan, Mr. A. Vijay Vignesh and Mr.S.Hariswaran participated in the International Webinar on “**Biomaterials in Construction**”, delivered by Dr.Jamal El-Khatib, Professor of Civil Engineering, Beirut Arab University, Lebanon, held on 04/05/2021 at SVCE.
- Mr. R.Mathiyazhagan, Mr. A. Vijay Vignesh, Mr.S.DiraviaBalan, Mr.Kalaivanan R, Dr.P. Venkateswara Rao and Mr.S.Hariswaran participated in the Webinar on “**MATLAB for Civil Engineering**”, conducted by the Department of Civil Engineering, SVCE in association with Mathworks, India held on 27/05/2021.
- Mr. A. Vijay Vignesh attended a 5 days AICTE ATAL sponsored FDP on “**Smart Cities - Infrastructure & Sustainability**” from 24/05/2021 to 28/05/2021, organized by Indian Institute of Technology, Ropar.

FACULTY DEVELOPMENT

- Mr.S.Hariswaran attended AICTE Training and Learning (ATAL) Academy sponsored FDP on “**Trailblazing Practices in Geotechnical Engineering**” from 07/06/2021 to 11/06/2021 organized by Meenakshi Sundararajan Engineering College.
- Mr. A. Vijay Vignesh attended Anna University Sponsored Six Days Online FDP on “**Structural Analysis - I**” from 14th to 19th June 2021 conducted by SVCE, Department of Civil Engineering.
- Ms. Ruby Freya attended AICTE Training and Learning (ATAL) Academy sponsored FDP on “**Earthquake Resistant Structural Systems and Design for Buildings and Structures**” during 7th to 11th June 2021.
- Mr.Kalaivannan R attended the workshop on “**Effective and Efficient Online Teaching**” conducted by IIT -Bombay on 12th June 2021.The Workshop is supported by the project titled “BodhiTree: A Platform for Improving Learning Outcomes using Online Interactive Courses and Assessed Labs”, funded by Tata Centre for Technology and Design (IIT Bombay).

FACULTY DEVELOPMENT

- Dr.R.Kumutha successfully completed 3 total hours of “**Leadership: Practical Leadership Skills**” online course on 07/02/2021 through Udemy.
- Ms. K. SathyaPriya successfully completed the “**Introduction to Engineering Mechanics**” Course authorized by Georgia Institute of Technology offered by coursera on 13/02/2021.
- Ms. K. Sathyapriya has completed the NITTT Course “**Module 1 - Orientation towards Technical Education and Curriculum Aspects**”.
- Mr.Kalaivannan R has completed the NITTT Course “**Module 1 - Orientation towards Technical Education and Curriculum Aspects**”.
- Mr.S. Diravia Balan has completed the NITTT Course “**Module 1 - Orientation towards Technical Education and Curriculum Aspects**”.
- Mr.R.Mathiyazhagan and Mr.S.Diravia Balan has received the top performing mentor certificate of appreciation for the NPTEL online certification course “**Municipal Solid Waste Management**”, Jan-Dec 2020.

CEA ACTIVITIES

- Mr. Ajay Krishamoorthy, III year Civil Engg gave a talk on “**Ancient Civil Engineering Marvel**” in CEA-Professional Talk held on 22/01/2021. He explained about the Indus valley civilization and its huge strides improving human life by enhancing civil construction and planning to a whole new level.
- Ms Jenani M. II year civil engineering gave a presentation on “**Usage of plastics in road and bricks**”. she briefly explained about plastic roads and its construction methods.
- In CEA- Alumni Talk Mr. Arvind Raja B , Application development Analyst, Accenture (B.E Civil Engineering - 2018 Batch) spoke on the topic “**Journey from campus to corporate** ” on 30/01/2021.
- Mr.Hariharan V. & Mr. Gogula Chezhiyan N. II year shared their **Internship experience** at Husaini Tech park construction site ,Ramapuram.(05/02/2021).(CEA -Professional Talk)
- Ms. Srilekha N. gave a talk on “**Safety is not expensive it is Priceless**” (05/02/2021) (CEA -Professional Talk)
- Ms .Kaavya R (IV year) gave a talk on “**How to score High in GATE exam**” on 20/02/2021 (CEA -Professional Talk)

CEA ACTIVITIES

- Mr.Praveen Kumar (IV year) shared his **Internship experience** at CMRL construction (20/02/2021) (CEA –Professional Talk)
- In CEA- Alumni Talk Ms. Suhani Singha, B.E. Pursuing MBA (B.E Civil Engineering - 2016 Batch) spoke on the topic "**Journey to a Top B school** " on 13/02/2021.
- CEA has conducted Technical **Crossword Puzzle** for Department students (Online) on 22/02/2021.
- CEA,department of Civil Engineering ,SVCE has organised one day "National level Technical Symposium - **ARTIFEX'21** (online)on 21/052021.(9.15 am to 5 pm) Artifex'21 was started with the invocation song>Welcome address delivered byMr.Abishek Murali, General Secretary /CEA. Ms. Arshiya, joint Secretary/CEA , introduced the chief guest to gathering Inaugural Address & Technical Talk on Environmental Remediation- Scope and Approach by Mr.Avinash CKR Environmental Consultant AECOM,Bangalore.
- Workshop on "**Automation of construction process using 3D Printing**" by Mr.SriramRenganathan, Product Manager, Tvasta Manufacturing solutions. was organised as a part of the symposium.

CEA ACTIVITIES

Workshop



SVCE **ARTIFEX**

**WORKSHOP ON
AUTOMATION OF CONSTRUCTION
PROCESS USING 3D PRINTING**

By
Mr. Sriram Renganathan,
Product Manager,
Tvasta Manufacturing solutions.

MAY
21 3.00pm - 3.45pm

Tvasta Manufacturing Solutions, an IIT Madras alumni founded startup, took the initiative and built " Indias First 3D Printed house" in five days. The house was inaugurated by Union Finance Minister, Nirmala Sitharaman.

Abishek Murali - 87549 99315
Arshiya - 9047016574

Registration Link : <http://bitly.ws/dj9T>
Gmeet Link: <https://meet.google.com/fuo-qpri-htx>

CEA ACTIVITIES

Following 4 technical events were conducted for the participants .
Paper Presentation



The poster features a dark blue background with a faint cityscape. At the top left is the SVCE logo (Sri Venkateswara College of Engineering). To its right are the CEA and ARTIFEX 2021 logos. The main text reads: 'CIVIL ENGINEERING ASSOCIATION Proudly presents ARTIFEX 2K21 PAPER PRESENTATION Present it !!! grab your exciting prizes!!!'. Below this is the Meetlink: <https://meet.google.com/fuo-qpri-htx>. A purple box contains the event details: '9.30-11.30 AM | MAY 21st', 'EVENT COORDINATORS: MONISHA - 9344069270, NEHA - 9940036323', and 'mail id - paperpresentationartifex2021@gmail.com'.

SVCE | Sri Venkateswara College of Engineering

CEA **ARTIFEX 2021**

CIVIL ENGINEERING ASSOCIATION
Proudly presents
ARTIFEX 2K21
PAPER PRESENTATION
Present it !!! grab your exciting prizes!!!

Meetlink - <https://meet.google.com/fuo-qpri-htx>

9.30-11.30 AM | MAY 21st

EVENT COORDINATORS:
MONISHA - 9344069270
NEHA - 9940036323
mail id - paperpresentationartifex2021@gmail.com

CEA ACTIVITIES

Build-O-Quiz





Sri Venkateswara
 College of
 Engineering

**CIVIL ENGINEERING ASSOCIATION
 PROUDLY PRESENTS**

ARTIFEX 2K21

Build-O-Quiz

Be ready. Be smart. Be noticed!
Win exciting prizes !!!

MAY 21 | 11 AM TO 12 PM

REGISTRATION LINK :- <http://bitly.ws/dj9T>
MEETING LINK :- <https://meet.google.com/rka-qrgh-xxj>

FOR MORE QUERIES CONTACT :-
 Mr.Naveen S(3rd Year) - 95000 95783
 Ms.Harshavarthani G(2nd Year) - 90879 30113
 Email id - buildoquiz2k21@gmail.com

CEA ACTIVITIES



 Sri Venkateswara
College of
Engineering
 


CIVIL ENGINEERING ASSOCIATION

Proudly presents

ARTIFEX 2021

ONLINE

Linkathon

* THINK IT! LINK IT! CONNECT IT!

Connect it!
To win exciting prizes!

12.30 PM | May 21st

Event Coordinators
Vijay - 7871884904
Laleeth - 8925418684

Meeting link - <https://meet.google.com/xtp-jzjz-eek>
Mail id - linkathon@gmail.com

CEA ACTIVITIES



Valedictory Address was given by Dr. R. Kumutha Professor & Head / CVE. Mr.R. Kalaivanan, AP/CVE read the CEA -Annual Report for the academic year 2020-21. Announcement of winners and prize distribution by Dr. R. Kumutha Professor & Head/CVE. Vote of thanks was proposed by Ms. Arshiya,Joint Secretary/CEA.

STUDENTS ACHIVEMENTS

Mr.Richin John Charly 4th year student has cleared the **second round** in the technical online quiz- UltraTech IndiaNext Stimulus- conducted by Ultratech Skillablers on 24/02/2021. He got selected for the Final Round in Ultratech Stimulus Quiz Competition.

The following Students have **cleared the GATE 2021 Exam**

Student Batch-2017-2021

- Mr.S.Sakthivel - GATE Score -580
- Ms.P.Monika - GATE Score -492
- Ms.R.Kaavya - GATE Score -467
- Mr.G.Ashish Kumar - GATE Score- 357

Student Batch -2016-2020

- Mr.S.Kumaran - GATE Score-499
- Mr.M.Karthikeyan - GATE Score-332

STUDENTS ACHIVEMENTS

- Mr.Rohan Lewis (II Year Civil Engg.) has secured **Third prize** and Ms. U. Amaravathy has secured **Consolation Prize** in the Intercollege Technical Oratorical Competition on the Topic “Safety is not expensive - It is priceless” held at Builders Association of India(BAI), Southern Centre, Chennai on 12/01/2021.
- Our college was awarded Overall **Second position** with a Memento during the Builders’ Day Celebrations 2021 held at PARK inn Beach Resort, Chennai on 20/01/2021.

STUDENTS ACTIVITIES

- Ms. VivedithaVarshini A.G. has undergone internship at **State Ground And Surface Water Resources Data Centre, PWD Tharamani**, Chennai, Tamil Nadu 600113 from 18/01/2021 to 18/01/2021.
- Mr. N. GogulaChezhiyan and Mr. V. Hariharan have undergone internship at **ASV Construction Private Limited**, Ramapuram, Chennai, Tamil Nadu from 09/01/2021to /30/01/2021.
- Ms. A. Jenisha has undergone an internship at **Sree Consultants**, Adayar, Chennai, Tamil Nadu 600020 from 29/03/2021 to 17/04/2021.
- Ms.G.Dharshini, Ms.G.Monisha and Ms.H.Nancy have undergone internship at **East Coast Construction & Industries Limited**, Chennai from 02/02/2021 to 20/02/2021.
- Mr. R. Aravindsamy has undergoing internship at "**Struct House India Private Limited**", Chenai from 08/04/2021to 08/06/2021.
- Mr. M. Bharath, Mr. R. GowthamRaj, Mr. V. Prabhakaran, Mr. V. Vasanthakumar, and Mr. Chayan Sardar have undergone internship at **Casagrاند** from 23/02/2021 to 23/04/2021.
- Mr.Promod Vishal has undergone internship at **L&T Construction**, Chennai from 01/04/2021 to 26/04/2021.

STUDENTS ACTIVITIES

- Mr. R. Keerthivaasan, Mr. P. Kavinselva, Mr. Siddharth J. U., Mr. K. Guru Prakash and Ms. Ranjana Priyadharshini participated in Webinar on "**Recommendations of Foundation for High Rise Buildings**" organized by Department of Civil Engineering, SVCE on 28/01/2021.
- Ms. Logeshwari R 3rd year student participated in Webinar on "**Work Breakdown Structure**" organized by Construction Management Training Institute, Bengaluru on 5th February 2021.
- Mr. Chayan Sardar 4th year student participated in the technical **online quiz- UltraTech IndiaNext Stimulus**- conducted by Ultratech Skillablers on 21.02.2021.
- V Dhilipraj, N.Gogula Chezhiyan, Hariharan V, Hemalatha R, Keerthivaasan R, Mr. P. Kavinselva, Mr. Siddharth J. U., Mr. K. Guru Prakash Vignesh A and Ms. Ranjana Priyadharshini participated in Webinar on "**Biomaterials in Construction**", organised by Department of Civil Engineering, SVCE on 04/05/2021.

STUDENTS ACTIVITIES

- Arshiya A S ,Bharanidharan. B, Hariharan V, Hemalatha R, Kavinselva P, Vignesh participated in Workshop on "**Automation of Construction Process using 3D Printing**", organised by Department of Civil Engineering, SVCE on 21/05/2021.
- Keerthivaasan R, Ramanan B B, Ranjana Priyadharshini, Saravanapandi G and Siddharth J U participated Webinar on "**Analysis and Design of Steel Pre Engineered Buildings**", organised by Department of Civil Engineering, SVCE on 29/05/2021.
- Jenani M, Kavinselva P, Keerthivaasan R, Ramanan B B, Ranjana Priyadharshini, Saravanapandi G Siddharth J U, and Vignesh A participated Webinar on "**Analysis and Design of Steel Pre Engineered Buildings**", organised by Department of Civil Engineering, SVCE on 29/05/2021.
- Jenani M, Kavinselva P, Keerthivaasan R, Ramanan B B, RanjanaPriyadharshini, Saravanapandi G Siddharth J U, and Vignesh A. participated Webinar on "**Municipal Solid Waste Management in India**", organised by Department of Civil Engineering, SVCE on 29/05/2021.

STUDENTS ACTIVITIES

- Kavinselva P, and Keerthivaasan R. participated Webinar on "**Latest Materials and Methods for Structural Engineers**" organised Siddharth Institute of Engineering and Technology on 05/06/2021 & 06/06/2021.
- Arshiya A S. participated in 7 day **boot camp on Python and Data Analytics**, organised Student Developer Club, Birla Institute of Technology Mesra on 24/06/2021 to 30/06/2021.
- Kavin Malar K. has completed NPTEL course "**Structure, Form and Architecture: the Synergy**" in Elite category, from 18th January to 12th March 2021.
- Kavin Malar K. has completed NPTEL course "**Introduction to Civil Engineering Profession**" in Elite category, from 18th January to 12th March 2021.

PROGRAM OUTCOMES (POs)

Students in the Civil Engineering program should, at the time of their graduation, be able to

- Apply the knowledge of mathematics, science, engineering fundamentals and concepts of Civil Engineering to the solution of complex engineering problems. **(Engineering knowledge)**
- Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. **(Problem analysis)**
- Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. **(Design/Development of Solutions)**
- Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems. **(Conduct Investigations of Complex Problems)**
- Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. **(Modern Tool Usage)**
- Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. **(The Engineer and Society)**
- Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. **(Environment and Sustainability)**
- Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. **(Ethics)**
- Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. **(Individual and Team Work)**
- Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. **(Communication)**
- Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. **(Project Management and Finance)**
- Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. **(Life-long Learning)**

PROGRAM SPECIFIC OUTCOMES (PSOs)

Students in the Civil Engineering program should, at the time of their graduation, be able to

- Provide solutions for real life problems related to core areas of civil engineering by applying knowledge of mathematics, Basic and Engineering Sciences and by using appropriate engineering tools.
- Plan, analyse, design, execute and manage infrastructure projects considering safety, societal and environmental factors.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Civil Engineering graduates during the first few years of graduation will:

- Practice civil engineering in construction industry, government or public sector undertakings by applying ethical principles and following norms of civil engineering practice.
- Pursue higher education and research to hone-up latest civil engineering technologies and to adapt to the changing global scenario.
- Exhibit leadership and team working skills as an entrepreneur with demonstrable attributes to contribute to the societal needs.



