

Civil - - Peddika

A CIVIL ENGINEER'S MONOLOGUE ★ ISSUE TWO - OCTOBER 2020



CHRIST
COLLEGE OF ENGINEERING



DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

VISION

A Centre of Excellence for moulding technically competent and socially committed Civil Engineering professionals through quality technical education and practical training.

MISSION

- 1. To impart quality education in Civil Engineering domain.**
- 2. Encourage students to do higher education and research.**
- 3. To create competent professionals who are capable of upholding ethical values and leadership qualities and principles of sustainable development.**

Program Specific Outcomes (PSOs)

- 1. Inculcating in students with innovative design concepts and managerial skills in Civil Engineering to prepare cost effective solutions.**
- 2. The ability to recognize the need of the society like housing, transportation, sanitation, waste management, irrigation and use of renewable energy for a sustainable environment.**

Program Educational Objectives (PEOs)

- 1. Graduates will be able to tackle the multiple responsibilities of analysis, design and construction of traditional and modern infra structures in compliance with various codes of practices to meet the current technical challenges.**
- 2. Graduates will be able to pursue higher education and research.**
- 3. Graduates will be able to understand the needs of the society and will be committed in developing optimal solutions.**

Civil Feedika

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Department of CIVIL ENGINEERING

Launch of CONSULTANCY

To undertake consulting assignments providing professional solutions to specific fields and additional skillset for Students, a planning and construction consultancy was started by the Civil Engineering Department of CCE. The concept of starting consultancy is to bring more of the Design Office to the classroom. This will help a student to gain experience in planning, design, supervision, estimation etc. and also helps in increasing confidence for undertaking works on their own. Along with the responsibilities of academics, faculty and students will be competent enough to share their insights for the real world problems.



By joining this endeavour students will get ample opportunity to work with real projects, visit construction sites, interact with clients etc. Apart from that the venture has made progress in awareness fields regarding the technicalities and procedures behind acquiring permits and sanctions from the Government prior to the starting of the Construction work.

Currently 20 Civil engineering students are given training under the leadership of Asst. Prof. Mr. Prabhasankar V. P. and Mr. Antony P.T. (Lab Assistant). The initiative was praised for its unique approach of mentoring and typical way of imparting practicum for the students

Head of Department receives her Doctorate Degree

It is a matter of great privilege that Associate Professor Krishnapriya M. G. (Head of Civil Engineering Department) has been awarded Ph.D. Degree from M.G. University for the thesis titled "Activity based travel demand modeling integrating residential location characteristics".

Dr. Krishnapriya M. G.
HOD Civil Engg. Dept.



WEBINARS

Right from the day one, the faculty members have found themselves managing virtual classrooms, communicating with their students over social media platforms due to the COVID-19 pandemic. They also organized various webinars which shed light on a wide range of issues, bringing together interested participants to exchange thoughts and ideas that contribute towards improving our nation's infrastructure and environment.



On July 28, an expert E-talk was delivered on the topic "Civil Engineering: The Amazing World" by Dr. Beena K. S. (Professor at School of Engineering, CUSAT). The webinar focused mainly on various disciplines under the Civil Engineering field and was coordinated by faculty members Dr. Sreedevi A. and Ms. Vinitha Sharon.

With an agenda to instate a link between "The Institution of Engineers (India)" and

our department, a session on "Introduction to IEI Students Chapter" was organized on 18th of October. Er. Shaji Jacob (Member of IEI Kerala State Centre Committee (EE), Kochi Local Centre) highlighted the importance and advantages of being a member of IEI Student Chapter. As a support to initiate the Students' Chapter and to get expert guidance, the webinar was coordinated by Asst. Prof. Angitha Sasidharan.

Later, a webinar on "Introduction to Remote Sensing & GIS" was held on 20th October. It was handled by Mr. Aswin P. Vijayan (Assistant Engineer, LSGD & Research Scholar, NITK, Suratkal), and proved to be a very interactive session conveying a great depth of knowledge to the attendees. The program was organized by Asst. Prof. Justice J. Thannickal.



The club have made its headway in becoming the best functioning ones of its kind. On 15th September, the club celebrated Engineers' Day with an online scavenger hunt titled "The Hunt" along with an online theme-based selfie and poster-making contest. All of them received raving support and participation from the students.

Shortly after, on 13th October, International Day for Disaster Risk Mitigation was celebrated in its true spirit and fashion with an Online Intercollegiate Idea Pitching contest open to all engineering



colleges in Kerala. Apart from housing candidates from several colleges, the contest was also able to serve as a platform to create the perfect blend of innovation and novelty. The contest was momentous and yet another feather



ENVO TECH

was added to the cap as it was highlighted as special feature in the local newspaper.

On 1st of August, the club organized an expert talk on "Advanced Oxidation Processes for Emerging Contaminants", delivered by Dr. M. S. Priyanka (Former research scholar at NIT, Calicut).



SITE VISIT 2020



Even in the wake of COVID-19 pandemic, the department managed to complete three site visits with all necessary forethoughts and safety measures. With head of the Dept. Dr. Krishnapriya M. G. and Asst. Prof. Prabhasankar V. P. on the tow, a team of 15 students visited a



site near Centro mall, Kodungalur, on 16th October 2020. The project was a shopping complex undertaken by Seashore Builders and the students were able to understand the particulars of pile and pile cap construction.

Later, on 20th October, a team of 14 students steered by Asst. Prof. Angitha Sasidharan visited the work site of Mar Thoma Syrian Ebenezer Church, East Fort, Thrissur. Structural Consultant, Mr. Sasikumar Therayil gave a brief-up about the ongoing construction activities and was very keen about helping the students to understand the concepts

Huddle is India's one of the largest Technology meet. An initiative by IAMAI and Kerala startup mission. Huddle 2019 Asia's largest startup ecosystem congregation held at Hotel Leela Raviz In Kovalam got underway with Kerala Chief Minister Pinarayi Vijayan announcing that this state has become a hub for tech firms and startup missions to expand their operations. The event hosted an array of Technology experts and marketing leaders offering a unique platform for startups to showcase their products before the technology and industry leaders from around the world.

Huddle Kerala

encompassed in core subjects like structural analysis and designing.

On 23rd October, a group of 10 students led by Asst. Prof. Prabhasankar V. P. and Lab Instructor Mr. Geo Paul K. visited the work site of She Lodge, which is a four storey building for Irinjalakuda Municipality, undertaken by JVM Associates. Students were able to watch Plate Load test performed to determine the bearing capacity and probable settlement.



Safe to say, the students gained decent practical awareness after these site visits. "I realized that working in a construction site is an entirely different experience and the visit helped me to learn what is not possible in class", quoted one of the students.

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The purpose of education is to replace an empty mind with an open one

-MALCOLM S.FORBES

More than 30 speakers, investors and industry challengers were also part of huddle Kerala.

It was a matter of great privilege for our college that 4 students from the civil engineering department (Shihash M. S., Sooryadevkishan P. S., Amal K. S., Hrithik P. Ravi) grabbed the opportunity to be part of the event and interact with the professionals and innovators. Asst. Prof. Philip Luke K. guided them and they collected data of the event and shared the experience with the college.

Series of chat shows with popular youtube personalities, initiated by the Department to enhance entertainment space for students

with **Binge**
RACE
LIVE CHAT SHOW

The pilot session on 28th of October 2020 with Mr. Harees Ameerli (a popular travel vlogger with 5.6 lakh subscribers!) was held on Google Meet and streamed live on YouTube. He stated the inspiration behind becoming a traveller vlogger as, "Travelling and sightseeing imparts new vigour to mind!". From sharing travel experiences to trying out different cuisines, Mr. Ameerli had a lot of stories that had the listeners exploring for more.



On 6th of November 2020, another

session with Mr. Ashiq (Maker-Q), was premiered on the department YouTube channel Civil-Wiz. The session was refreshing and entertaining, as the young YouTuber, with a strapping 1.3 lakh subscribers, shared riveting experiments and projects that he does in his videos. Mr. Ashiq quoted his driving force, "People who take their time out to watch me are my greatest stimulus. Their feedbacks always fuel me up!"



From lively chat session to thrilling rounds, the venture still continues to brighten the students and teachers alike.



“

Wonder is the seed of
Knowledge

-FRANCIS BACON

Upgrade with Add-on

There is a widely accepted notion that goes along the lines of "academic performance coming to little or no aid in an industry setting", and while that may seem superficially accurate, it is safe to say that the true makings of an industrially fit engineer, lies somewhere between academic proficiency and practical dexterity. In order to reach that spot, our department conducted online add-on courses for the students on several topics of practical prominence.

The add-ons kick-started on July 21st with

CREATING INDUSTRY FIT ENGINEERS

a three-day session on Basics of Artificial Neural Network Modelling by Asst. Prof. Vinitha Sharon. The session threw light on the concept of ANN and usage of ANN tools for model creation. Being a topic of rising importance, it garnered a considerably large count of attendees and positive reviews.

Shortly after, a two-day long session on Linear Data Modelling and Statistical Tests using Microsoft Excel was conducted by Assoc.Prof. Dr. Krishnapriya M.G. (Head of Department), on 23rd and 24th of July.

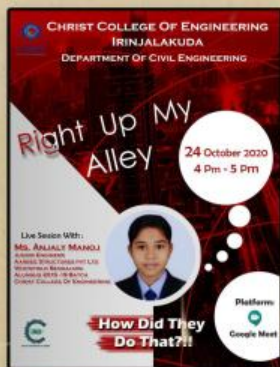
The session imparted awareness regarding several topics of growing technological value such as data handling of project works to linear regression modelling and statistical tests.

Later, a three-day long add-on course was conducted on consecutive days starting from 5th of August, by Asst. Prof. Prabhakaran V. P., on Learn to Read Structural Drawings sharing real site videos. The session was bound to contribute largely to the early signs of workmanship of a young civil engineer, as it helped the students to comprehend structural drawings with ease, read detailed drawings of structural components as well as to check the reinforcement at site.

Following that, another session bearing utmost relevance in civil engineering profession was held from 11th to 13th of August by Asst. Prof. Angitha Sasidharan. The session Building Estimation using AutoCAD and Microsoft Excel helped the students to take home professional aspects of quantity take off, rate analysis and bar bending schedule.

Later on, a two-day long session regarding Introduction to ArcGIS was held on 21st and 22nd August, with Asst. Prof. Niranjana M. S. at the helm. Relevant concepts like creating and using maps, compiling geographic data and analyzing mapped information were explained vividly for improving the notion of students.

RIGHT UP MY ALLEY



"My buildings will be my legacy... they will speak for me long after I'm gone."

-Julia Morgan

They say, Passion is too unrelenting to be dismissed, yet too fiery to be contained.

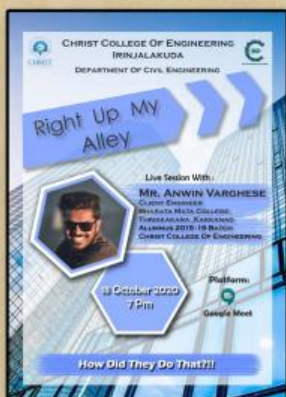
This is why the Department of Civil Engineering decided to instigate a new venture, aptly titled "Right Up my Alley", for the sole purpose of aiding the students who are resolute about securing a job in the field of Civil Engineering. Apart from assisting the students to realize their milestone, this incentive has already made its headway for keeping the like-minded in the same boat, by creating an online platform for live interaction among the young aspirants and their alumni who have already hit that target. Despite being in its primordium, this has proved to be not only enlightening for the students, but also served as a window to perceive what it is

like and how it is like to be a young professional in their desired career

The first session held on 11th October was with Mr. Tomjo J. Arikkat (Site Engineer at Ambica Constructions, Bengaluru, and alumnus of 2016-2020 CE batch), with a strapping count of attendees in google meet. While the hosts directed queries spanning from internship programs to technical know-hows and beginner's experiences, Mr. Tomjo obligingly answered with equal enthusiasm.

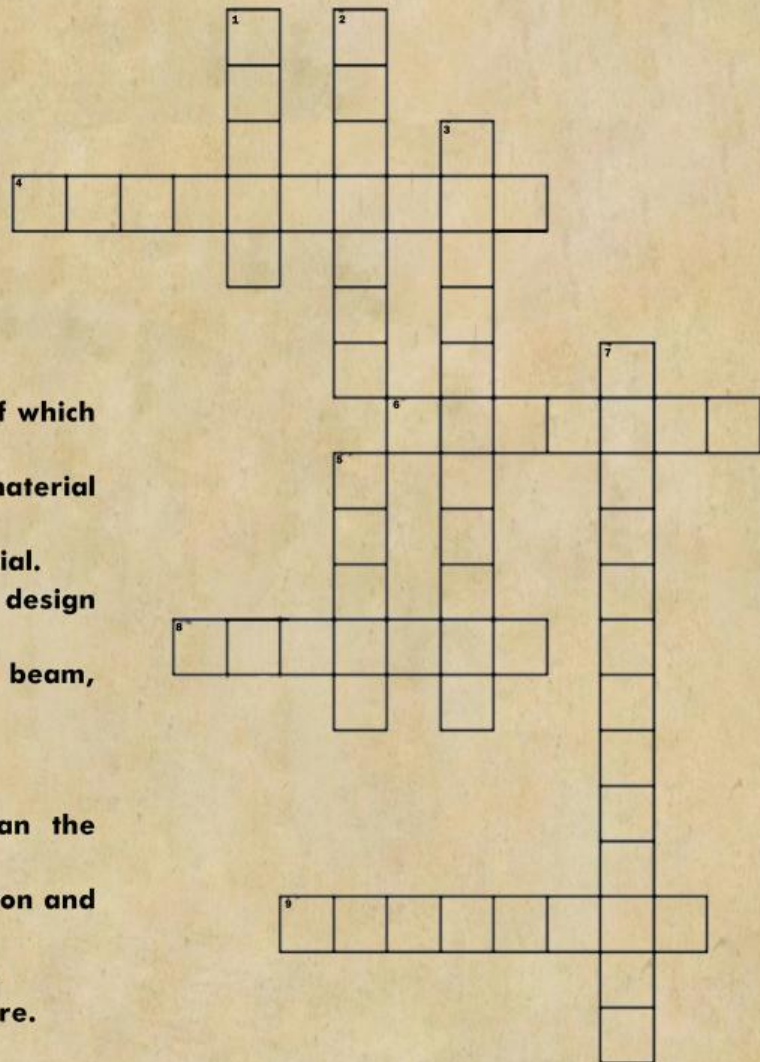
A week later, on 18th October, the same platform had Mr. Anwin Varghese (Client Engineer for Bharata Mata College, Kakkannad and former student of the pioneer batch of CCE). He gave an appreciable reply to the query about modest payment of beginners, as, "If you are passionate about what you do, then no matter how high-end and well-paying the other jobs are, you will never have the same level of satisfaction as doing your dream job.

The most recent session was on



24th October, with Ms. Anjaly Manoj (Junior Engineer at Aarbee Structures Pvt. Ltd., Whitefield, Bengaluru and alumna of 2015-2016 CE batch). Being the top scoring student of her batch, and having secured a job in the Civil Engineering field amidst several IT giants in a bustling city like Bengaluru, Ms. Anjaly happily shared her experi-

ences and insights with juniors. The sessions received positive reviews and the most rewarding outcome that the students were able to listen to the hindsight and afterthoughts of their seniors, which could potentially play a role in their careers.



DOWN

1. Cable bridges are mostly made of which material?
2. A force that stretches the material apart.
3. A force that squeezes the material.
5. Which bridge uses a triangular design to improve strength?
7. To strengthen a rectangular beam, what is used?

ACROSS

4. Which type of bridge can span the longest distance?
6. A force that is a mixture of tension and compression.
8. An action that twists a material.
9. The weight of items on a structure.

1. Steel, 2. Tension, 3. Compression, 4. Suspension, 5. Truss, 6. Bending, 7. Reinforcement, 8. Torsion, 9. Live load



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