



STIRRUPS

GEOREST'23

CIVIL ENGINEERING ASSOCIATION
GOVERNMENT COLLEGE OF TECHNOLOGY
COIMBATORE

EDITORIAL

DESK

symposium conducted by the Department of Civil Engineering, Government College of Technology, Coimbatore on 12th and 13th April, 2023. It brings us immense pleasure to bring out the official magazine of Civil Engineering Association (CEA) "STIRRUPS" on this splendid occasion. The magazine serves as a platform for the students to expose their knowledge on interested fields. In addition to this the magazine also offers the students to showcase their extra curricular activities With gratitude we thank our beloved Head of the Department and faculty members for this grand event. We wish a grand success for GEOFEST'23

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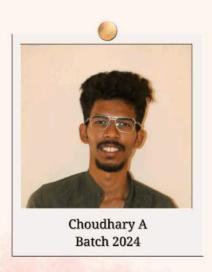




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WISHES



Dr. K. Manonmani, M.E., Ph.D.
Principal

I am extremely happy to note that the Department of Civil Engineering is hosting "GEOFEST XXII" on 12th and 13th April 2023, a national level technical symposium, Civil engineering. They are releasing a magazine in-house publication. The various activities of the association will certainly kindle innovative ideas and build leadership skills amidst students

I wish the "GEOFEST XXII" a grand success.

I'm extremely happy to note that the department of civil engineering is publishing the magazine on the occasion of a national level technical symposium "GEOFEST XXIII". I appreciate all the contributors for their bracing ideas and also editorial team for their admirable job in producing this magazine.

I wish the "GEOFEST XXIII" a great success.



Dr. R.THENMOZHI M.E., Ph.D HOD- CIVIL ENGG.



Dr. J.JEYANTHI, M.E., Ph.D. HOD -ENVIRONMENTAL ENGG.

The magazine kindles the nerves of every voracious mind. The wide spectrum of articles under different sections in the magazine showcases the extravagant talent of the students. I appreciate all the contributors for their novel ideas.

I wish the "GEOFEST XXIII" a massive success.

DEPARTMENT OF CIVIL ENGINEERING

VISION

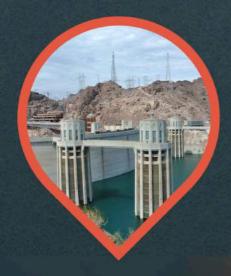
MARCHING TOWARDS THE CENTRE OF EXCELLENCE IN
ENGINEERING AND TECHNOLOGY WITH
SUSTAINABLE DEVELOPMENT TO BRING OUT PROFESSIONALS
WITH FUTURISTIC VISION.

MISSION

- TO MOULD THE STUDENTS TO BE GOOD PLANNERS, DESIGNERS, EXECUTERS AND ETHICAL ENGINEERS TO SERVE THE SOCIETY AND STRIVE FOR THE DEVELOPMENT OF THE NATION.
- TO MAKE CIVIL ENGINEERING DEPARTMENT A RENOWNED HIGH-TECH CONSULTANCY CENTRE FOR VARIOUS CIVIL ENGINEERING ACTIVITIES.
- TO CREATE A NODAL CENTRE FOR PROVIDING CONSULTING SERVICES DURING NATURAL CALAMITIES.
- TO MAKE THIS DEPARTMENT A CENTRE FOR RESEARCH AND DEVELOPMENT ACTIVITIES WITH FIELD INTERACTION.

FACTS

THE WORLD'S FIRST
UNDERWATER TUNNEL WAS
BUILT IN 1843 BENEATH THE
RIVER THAMES IN LONDON,
ENGLAND



THE HOOVER DAM,
LOCATED ON THE
BORDER BETWEEN
ARIZONA AND NEVADA,
IS CAPABLE OF
PRODUCING OVER 4
BILLION KILOWATT
HOURS OF ELECTRICITY
EACH YEAR.



THE WORLD'S LONGEST
SUSPENSION BRIDGE, THE
AKASHI KAIKYŌ BRIDGE
IN JAPAN, HAS A
CENTRAL SPAN OF 1,991
METERS (6,532 FEET)
AND TOOK 10 YEARS TO
BUILD

THE WORLD'S FIRST 3D-PRINTED STEEL PEDESTRIAN BRIDGE WAS INSTALLED IN AMSTERDAM IN 2018.



THE WORLD'S LARGEST
DAM, THE THREE GORGES
DAM IN CHINA, IS CAPABLE
OF PRODUCING OVER
100,000 MEGAWATTS OF
ELECTRICITY.



THE PANAMA CANAL,
COMPLETED IN 1914,
REQUIRED THE EXCAVATION
OF OVER 200 MILLION CUBIC
METERS OF DIRT AND ROCK



THE WORLD'S LARGEST
SHOPPING MALL, THE DUBAI
MALL, COVERS AN AREA OF
OVER 1 MILLION SQUARE
METERS (10.4 MILLION SQUARE
FEET) AND CONTAINS MORE
THAN 1,200 STORES.

ARCHITECTURAL STRUCTURE OF CHOLA DYNASTY

Can you imagine of lifting 10 elephants and assembling them at an approximate height of 10 feet without any modern lifting machines? If you think that as an impossible act, you are wrong! Yes, it was done by people who didn't even had an engineering degree. Sounds impossible and amazing at a same time right?

We all know that when a stone is carved, we a get sculpture. But there are many intrinstic works which distinguish them. Coming back to The people who lifted elephants, it was the same people who did artistic works on rocks and made people to wonder and fall in love with them. These people constructed many giant size stone henge with designed rocks and paintings portraying their exceptional architectural skills. Apart from sculptures, there were also rock pathways and narrow rooms carved with perfect symmetry. These people constructed a sanatorium out of a rock!

Not only carving, beautifying them with paintings were their special style. They also built a narrow long sized 10-feet dome with dome above stone sanatoriums. Right along with dome, they constructed a tri-angular structure which adds up to it's magnificent look. These structures had something on top of them. Wonder what? They were the new beginnings of a life collected in a pot.

Can you believe that still these stone carved large size structures with elephant on their top still exists till date?

No wonder our culture is portrayed by everyone! All these were the sculptural marvel of "Chola dynasty". Speaking about elephant, it wasn't an actual one to but a single stone whose weight nearly equals 10 elephants which was assembled on the famous "The Brihadeeswarar temple" - a traditional mark which symbolizes Chola's excellence in art and architecture. The tri-angular structure were the 'Gopuram' holding new lives of unborn food crops in pot called as 'kalasam'. The dome accompanying the gopuram is 'Vimana' portrayed as shelter fox sanatorium - 'the Garbgraham' in ancient hymns. The rocky pathways leading us to explore all these wonders are the passage with paintaings.

I think you've got almost the stone henge part right? Yes! They are the temples constructed by Chola kings! A Modern day marvel!

PAVITHRA V BATCH 2024

ECO FRIENDLY CIVIL INVENTIONS

With increase in industries and technological developments in the world the has been tremendous amount of growth in every sector.

Overcrowding has increased the demands of resources causing many critical issues like large production of wastes, environmental issues, pollution etc. Civil Engineers nowadays are pushed to find solutions to various issues by developing innovations used currently around the world to improve socio-environmental sustainability.

One of the eco-friendly inventions is the plastic roads in waste production, mainly plastics. Plastics are non-biodegradable and toxic and pollute the environment to a large extent. Use of plastics for road construction may help to manage plastic wastes. Roads ca be constructed by using plastic and heated bituminous mixes.

Researchers conclude that plastic could increase the aggregate impact value of roads. Using plastic for road construction improves the quality of pavements and also reduces wear and tear of the roads in the long run and prevents water percolation. Plastic road is one of the most ecofriendly invention ever done.

Another latest ecofriendly civil invention is the preparation of soil bricks using bacteria. It helps in an effective way to settle down in the neutral phenomena.

The bacteria used is MICP bacteria. It eradicates the plugging of pores to avoid cracks in concrete. This process potentially removes pollution from the environment.

The portable bio gas plant is an eco-friendly invention which has made our earth a more habitable place. This invention helps to eliminate wet wastes such as fruits and vegetable peels, meat, fish and poultry waste etc. The wet wastes are converted into different products like manure cooking gas etc.

Another invention is the green roof systems. In this, a vegetative layer is grown on the roofs top with proper installations for irrigating the vegetation. The green roofing systems have offered environmental benefits to urban community. It has enhanced the urban biodiversity, reduced runoff quantity, controlled pollution etc. This system also helps in cooling the buildings.

With pollution emission of harmful gases, increase in waste production, emission of CO2 etc. it is necessary to be environmentally conscious and adopt ecofriendly measures to make the earth a better place. Hence inconclusion it is important to develop new ecofriendly innovations in all possible ways to make the world a habitable place for the future generations.

DENSEE J BATCH 2024

GEOFEST'23

CIVIL ENGINEERING ASSOCIATION



NON TECHNICAL EVENTS PITCH IT AWAY WAVELENGTH INDRU NETRU NAALAI CINIPLEX PANEL ANIME & SERIES QUIZ

NATIONAL LEVEL
TECHNICAL
SYPOSIUM
CONDUCTED BY
OUR STUDENTS ON
11TH AND 12TH
APRIL AS
GEOFEST"23



TECHNICAL EVENTS

PAPER PRESENTATION
TECHNOWIZ
BUILT IT RIGHT
MR. MACADAM
TOPOGRAPHIO
REVEAL THE CIVIL
TECHTEMPORE
CAD MANIAC







RAJKUMAR S BATCH 2023

MODELS



EIFFEL TOWER
PARIS

SIBHI ARAVINDHAN A HARISH R BATCH 2024

C O L L O S S E U M R O M E

PRANAV S
MONISH S
SUNDHARRAJ A
NAVEENA BHARATHI A
NAVEENA SHREE A V
BATCH 2024

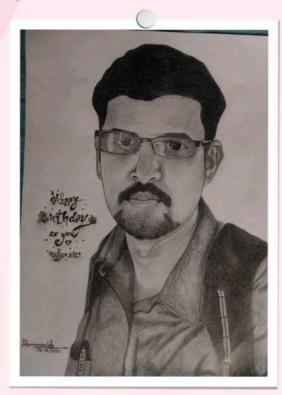


DRAWINGS



RAMKUMAR R BATCH 2024









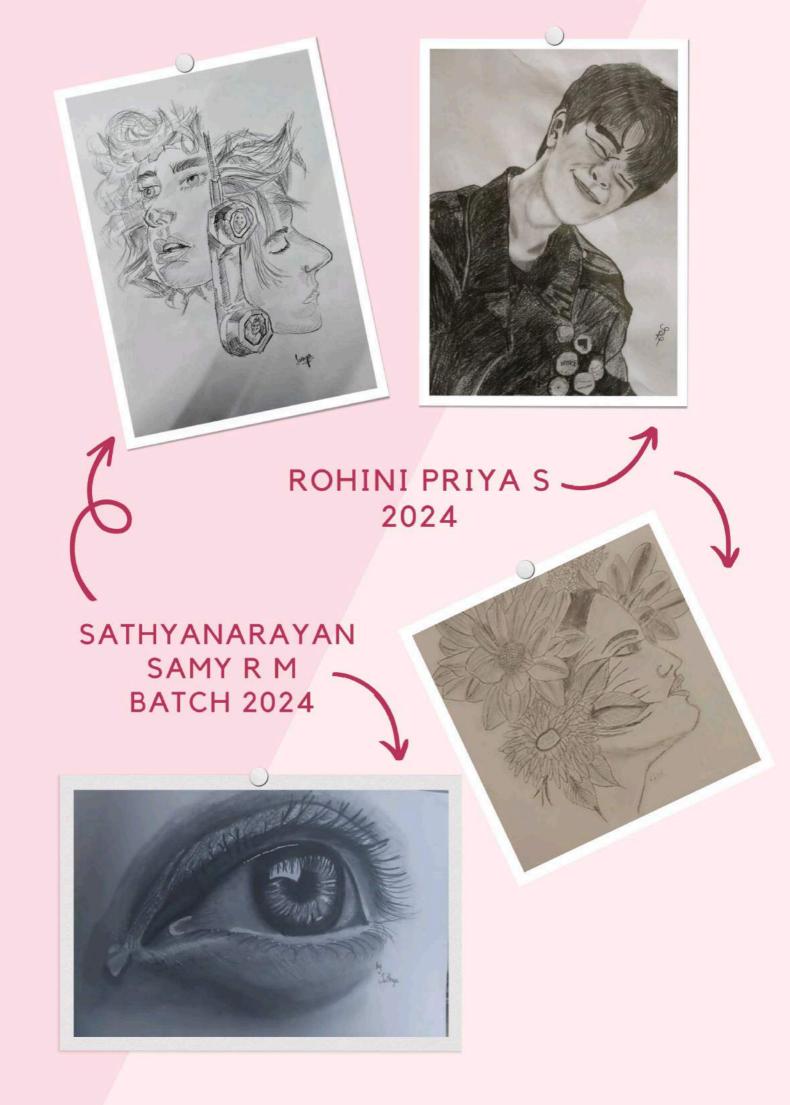








DHIVYABARATHI A BATCH 2024



POETRY CORNER

TIME HEALS

I know time heals.

Do you know time steals too?!.

I know time hurts...

Do you know time kills?!.

I know time shakes.

Do you know time destroys?!

I know time consumes moments.

Do you know time shapes and carves ?!

I know time will shower GOD's Love and mercy.

Do you know time will give your myocardium ache making you long for the unparalleled innocent Love lifelong?!.

I know time will hit your nerves.

Do you know the same time will renew me completely?!

I know time will push u into a manhole of guilt.

Do you know time will take me to greater Heights to the Moon.?!

I know time will change diamonds to money with nothing Genuine.

Do you know time will never change the Beauty and Love of Moon.?!.

I know time will pull you out of your Aspirations.

Do you know time will make me an Inspiration?!.

I know time will shatter you, that's who u are.

Do you know time will prove you who am I

KV RASHMIKA

BATCH 2025

It's special and Beautiful,
When you count days and hours,
With tears of affection and pyrexia.
When you count minutes and seconds,
The beats missing it's pace,
The joy when u finally glimpse!!!
It's secret only myocardium knows.
Want to be parallel to you
To make all your miseries
Perpendicular.!

He neither dreamt of spring Nor did he sought one, For his taste being pale and plain He always wanted none.

Smooth was his life unbothered was his soul, Nothing was his chase Not any girl and not any goal.

And then came a wind A miracle from the west All that it brought along was some ineffable smile and trust.

Little did he knew
That it'd own him henceforth,
Little did they knew
That It'd happen for them both.

The wind wished to stay And the same did he Till the end unknown as they are meant to be

The Love was real And so was our life, For the wind is she and he is I

SHASANTH S BATCH 2024



FOND MEMORIES



FACULTIES IN CHARGE



BATCH 2023



BATCH 2024



BATCH 2025



IN THIS MOMENT, WE STAND TOGETHER, HEARTS BEATING AS ONE. FOR THE MEMORIES WE'VE MADE, WILL NEVER BE UNDONE

BUILDING RISE WITH US!

