

“TECHNICAL KRITHI”

June 2021

ENVIRONMENT DAY

“Let’s Plant Seedlings for a Better Tomorrow”

Unlike every year, this year’s Environment day has an inevitable speciality. We have seen human beings running behind the oxygen cylinders for a little breath. Each tree around us is proficient enough to give us more oxygen than we can obtain from a thousand oxygen cylinders.

Thousands of tree saplings, and hundreds of trees and gardens have thrived to touch the earth through the “Go Green” project envisioned by the college management in 2016. The Butterfly Garden is also maintained on the college campus. This is a project that was put forward by Mr. Sadanandan, Chairman of the college. He is of the opinion that trees should be loved like human beings.

Irrespective of the days we celebrate, Management and staff always pay attention to planting and caring of tree saplings on campus everyday. Under the leadership of Mr. Abyin Ambadiyil, College Managing Director, Dr. Radhakrishnan, Principal the staff planted tree saplings on this environment day as well.

The human foot is a masterpiece of engineering and work of art

~Leonardo da Vinci



DELIVERED ONLINE LEARNING TOOLS

SNIT Adoor managing director Abyin Ambadiyil handed over online learning tools to The hon. Deputy Speaker of the Legislative Assembly Chittayam Gopakumar. Chittayam Gopakumar, said that the smart phones and other learning tools will be distributed to children who are facing financial difficulties to buy online learning tools. College Principal Dr. Radhakrishnan, Academic Coordinator Shri Radhakrishnan Nair and Academic Chairman Dr. Keshav Mohan were also present at the function. Smart phones and learning equipments were also handed over to Smt. Shanthi Kuttan, Ezhankulam Grama Panchayat member, that will be distributed to the needy children in the ward where the college is located. After you list the things you want to write about, organize your list into categories, like Introduction, Dad’s News, Mom’s News, Kids’ News, Special Messages, and Final Thoughts. If your children are old enough, consider asking them to write their own sections.





STUDENTS CORNER

KAVYASREE S

S4 CIVIL

APPLICATIONS OF IOT IN CIVIL

Over the past decade, the internet has deeply influenced our society. What we are going to talk is the applications of Internet of things (IoT) in civil engineering. IoT is a branch of Information Technology which generates a connectivity link between “ Internet” and actual physical “ Things”. The connection link between internet and physical things make available to admittance the control over physical things from well-defined or possible distance under common infrastructure and to access the sensor data. Let’s see how IoT can be applied in the field of civil engineering.

IoT technology can reduce tension by collecting relevant information in real time and delivering it to the necessary agents. Management and decision makers can see almost immediately how situations are playing out and take action either to improve or correct a project’s. It’s cyclical because IoT empowers the intelligence program by offering real-time collection and analysis opportunities. Method is faster and gives more accurate result.

Here’s a quick example.. With bridge and tunnel construction, it’s necessary to monitor the surrounding area for environmental changes.

Soil and ground movement, earthquakes, changes in water levels and similar events can impact the project. Sensors embedded within the surrounding area can collect pertinent information, which passes to a remote analytics tool. During a seismic event, the entire system would instantly discern if work must be postponed or if it can continue safely. A support program can distribute alerts to all necessary parties automatically, helping to ensure everyone knows the current status of the project — especially those in the field.

When IoT is installed during new projects, the resulting data reports may reveal additional challenges or problems that would have otherwise gone unnoticed. A new two-lane road, for instance, may see more traffic and congestion than initially expected. Generally productivity, maintenance, security and safety appear to be the leading drivers of IoT adoption in the construction industry .With the correct solutions in place , IoT can introduce many new opportunities that might significantly improve the value of a project.

DO YOU KNOW

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De-Shuttering time of different RCC Members

- ✦ For columns, walls, vertical form works
16-24 hrs.
- ✦ Soffit formwork to slabs-
3 days (props to be refixed after removal)
- ✦ Soffit to beams props –
7 days (props to refixed after removal)
- ✦ Beams spanning upto 4.5m
7 days
- ✦ Beams spanning over 4.5m-
14 days
- ✦ Arches spanning up to 6m
14 days
- ✦ Arches spanning over 6m
21 days

T E C H I E

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“Mens Hostel Lower Primary School ടെ അടുത്തായിരുന്നു”

Arranged in decreasing order of iron content.

M Magnetite (70-73%)

P Pyrites (45-47%)

H Haematite (65-70%)

S Siderite (40%)

L Limonite (60%)

HAPPY BIRTHDAY

Elattuvalapil Sreedharan is an Indian engineer Known as the Metro Man was born on 12 June 1932, who is credited with changing the face of public transport in India. His primary education was from Government Lower Primary School Chathannur near Pattambi in Palakkad district. He completed his education at the Basel Evangelical Mission Higher Secondary School and then went to the Victoria College in Palghat. He later-on completed his Civil Engineering degree from the Government Engineering College, Kakinada, Andhra Pradesh, presently known as Jawaharlal Nehru Technological University. For a short period, Sreedharan worked as a lecturer in Civil engineering at the Government Polytechnic, Kozhikode and a year at the Bombay Port Trust as an apprentice. He subsequently joined the Indian Railway Service of Engineers (IRSE), after clearing the Indian Engineering Services Exam in 1953 conducted by the UPSC.



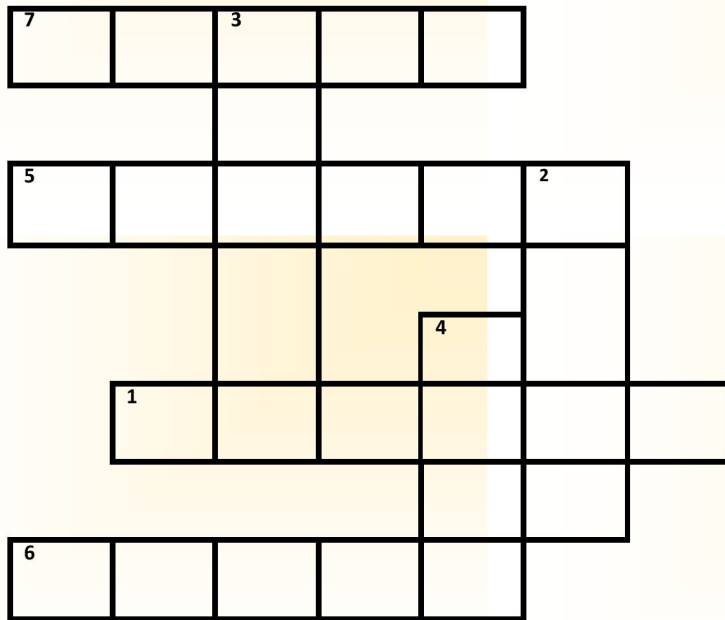
E SREEDHARAN (12 JUNE, 1932)

His first assignment was in the Southern Railway as a Probationary Assistant Engineer in December 1954. He was awarded the Padma Shri by the Government of India in 2001, the Padma Vibhushan in 2008, the Chevalier de la Légion d'honneur in 2005 by the French government and was named one of Asia's Heroes by TIME magazine in 2003. Sreedharan was appointed by the former UN Secretary General Ban Ki-moon to serve on the United Nations's High Level Advisory Group on Sustainable Transport (HLAG-ST) for a period of three years in 2015. He is a member of Mata Vaishno Devi Shrine Board.

Major projects include Delhi Metro Konkan Railway Kochi Metro Lucknow Metro Kolkata Metro

REENU RAJAN
M2 SECM

LET'S FIND OUT



HORIZONTAL:

- 1) In a mortar, binding material is
- 5) Predominant constituent responsible for strength in granite
- 6) Anticorrosive paint is in colour.
- 7) Synthetic rubber paints prepared from

VERTICAL:

- 2) Galvanising means covering iron with a thin coat of
- 3) Slate formed on metamorphic action on
- 4) An example of Hardwood.....

"STUFF YOUR EYES WITH WONDER" –RAY BRADBURY

EMPIRE STATE BUILDING, NEWYORK

Designer	: Shreve, Lamb & Harmon.
Structural engineer:	: Homer Gage Balcom
Floor area	: 2,248,355 sq. ft(208,879 m2)
Roof.height	: 1,250 feet (380 m)
Total height	: 1,454 feet (443.2 m) tall, including its antenna
Top floor height	: 1,224 ft. (373.1 m)



102-story building

One of the most popular attractions on our itinerary. Built in 1931. Building has 102-story in Art Deco skyscraper in Midtown Manhattan in New York City, United States. It was designed by Shreve, Lamb & Harmon and built from 1930 to 1931. Its name is derived from "Empire State", the nickname of the state of New York. It is currently the tallest tower in New York city.

Construction started on March 17, 1930, and the building opened thirteen and a half months afterward on May 1, 1931. The original plan of the building was 50 stories, but was later increased to 60 and then 80 stories. The Floor count is 102 and Floor area is 2,248,355 sq. ft. (208,879 m2). there are 73 Lifts/elevators. The Developer is John J. Raskob and Al Smith, the Structural engineer Homer Gage Balcom and Main contractor Starrett Brothers and Eken.

60,000 tons of steel 10 million bricks, marble of different types, 6,500 windows are used for this construction. It cost \$ 41 million. Foundation is 16.7 meters below ground. Opened in 1st may 1931. It has been named by the American Society as seven wonders of the modern world.

AKSHARA K P

M2 SECM

HELLO

ARCHITECT
FRANK LLOYD
WRIGHT

He was an American architect, interior designer, writer, and educator, who designed more than 1,000 structures, 532 of which were completed. Wright believed in designing structures that were in harmony with humanity and its environment, a philosophy he called *organic architecture*, which has been called *"the best all-time work of American architecture."*

Wright designed original and innovative offices, schools, skyscrapers, museums, and other structures. He often designed interior elements for these buildings, as well.

Some of the famous constructions are:

- ✚ Graycliff.
- ✚ Falling Water,
- ✚ Kentuck Knob,
- ✚ Darwin.D.Martin House,
- ✚ Solomon.R.Guggenheim Museum.

And many more....

SRUTHI S
S2 CIVIL

CONGRATULATIONS

S2 CE TOPPERS

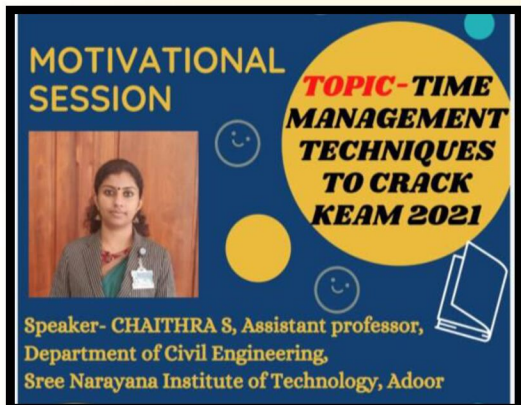
SIVAKRISHNA R	BHAGYALEKSHMI P	SREELEKSHMI S	ASHNA S ALI	JASNA FATHIMA
SCPA 9.76	SCPA 9.76	SCPA 9.05	SCPA 9.05	SCPA 9.02



WEBINARS CONDUCTED



A motivational webinar on the topic “*Patience and self-confidence*” by HOD of our Department, Riyana M S, held on June 11, from 7pm to 8 pm.



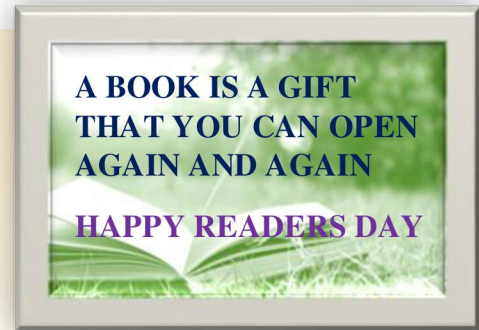
A motivational session on the topic “*Time management techniques to crack KEAM 2021*” by Assistant professor of our Department, Chaithra s, held on June 21, from 7pm to 8 pm.



An online session conducted on the topic “*Importance of creativity, ideas and ethics in engineering*” by Yedu Krishnan R, senior software Engineer, LG R&D Center, Former senior research fellowship holder-DRDO, held on June 26, from 7pm to 8 pm.



International yoga day has been celebrated annually on 21 June since 2015. This year theme is 'Yoga for Wellness' much relevant for our times in a society still recovering from the impact of the coronavirus disease (Covid-19) pandemic. And the focus will be on practicing yoga for physical and mental well-being.



LET'S CHECK IT OUT

	4	8	2				1	
1			3	8	4	7	2	6
3			7		1	9	4	8
	7	2	6	4	5	1	8	
8					2	4		
								7
	8	4				3		
6			4	1				2
		3					7	4

CONGRATULATIONS (S)



HAPPY BIRTHDAY



RIYANA M S [HOD]
JUNE 10



GOPIKA A S [ASSISTANT PROFESSOR]
JUNE 14



SUNITHA S (S6)
JUNE 10



BINITHA BENNY (S6)
JUNE 11



DEEPAK RAJ (S6)
JUNE 19



VYSHNAV N (S2)
JUNE 4



RENJANA RAJ (M4)
JUNE 27



PRIYA S MATHEW (M2)
JUNE 12



RISHNA K RAMAN (M2)
JUNE 11



DIVYA NAIR (S2)
JUNE 6



ARADHYA ANNA ALEX (M2)
JUNE 11

CONFERENCE ATTENDED

SREE BUDDHA COLLEGE OF ENGINEERING
PATTOOR P.O., ALAPPUZHA, KERALA
DEPARTMENT OF CIVIL ENGINEERING



National Conference on

Sustainable Practices in Civil Engineering (SPICE '21)

This is to certify that **Ms. Aiswarya Lekshmi G S** of SREE NARAYANA INSTITUTE OF TECHNOLOGY, ADOOR has participated in the two day National Conference on "Sustainable Practices in Civil Engineering (SPICE'21)" organised by the Sree Buddha College of Engineering, Pattoor, Alappuzha, Kerala from 10th to 11th June, 2021 through Google Meet platform and presented a research paper titled.....

"Evaluating the slenderness limits of flanges and webs in silo supporting steel structure"

authored by **Ms. Aiswarya Lekshmi G S and Ms. Chaithra S**



Dr. Gouri Antherjenam
HoD (CE) & Convenor SPICE'21



Dr. K. Krishnakumar
Principal

SREE BUDDHA COLLEGE OF ENGINEERING
PATTOOR P.O., ALAPPUZHA, KERALA
DEPARTMENT OF CIVIL ENGINEERING



National Conference on

Sustainable Practices in Civil Engineering (SPICE '21)

This is to certify that **Ms. Densy Johnson** of SREE NARAYANA INSTITUTE OF TECHNOLOGY, ADOOR has participated in the two day National Conference on "Sustainable Practices in Civil Engineering (SPICE'21)" organised by the Sree Buddha College of Engineering, Pattoor, Alappuzha, Kerala from 10th to 11th June, 2021 through Google Meet platform and presented a research paper titled.....

"SEISMIC ANALYSIS AND FINITE ELEMENT SIMULATION OF STEEL TUBULAR PIER WITH FIBRE REINFORCED POLYMERS"

authored by **Ms. Densy Johnson and Ms. Anju Thulasi**



Dr. Gouri Antherjenam
HoD (CE) & Convenor SPICE'21



Dr. K. Krishnakumar
Principal

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Releasing our
Newsletter every
month

ARTICLES
 TECHNICAL WRITINGS
 TECHNICAL ACTIVITIES
 PAPER PUBLICATIONS
 CONFERENCE ATTENDED
 CROSSWORDS
 QUOTES
 ACHIEVEMENTS
 ANNOUNCEMENTS



SEND ENTRIES TO
ceptatechnicalkrithi@gmail.com

Entries invited from students **before 25th** of every month

Comments related to this newsletter can also be sent to the mail id provided

Mail Id:

ceptatechnicalkrithi@gmail.com

THANK YOU