SREE NARAYANA INSTITUTE OF TECHNOLOGY, ADOOR

DEPARTMENT OF CIVIL ENGINEERING

CEPTA

NEWSLETTER

"TECHNICAL KRITHI"

e-Newsletter
JULY 2021

KARGIL VIJAY DIWAS

"A soldier fights not because he hates what is in front of him but because he loves what's behind him"

SNIT Adoor payed homage to the brave soldiers who left their lives behind for our nation.

Kargil Vijay Diwas is commemorated every 26th July in India, to observe India's victory over Pakistan in the Kargil War, ousted the Pakistani Forces from their occupied positions on the mountain tops of Northern Kargil District in Ladakh in 1999. Every year, Kargil Vijay Diwas is observed on July 26th to commemorate the success of Operation Vijay in 1999. Kargil Vijay Diwas celebrated in honour of the Kargil War heroes. The Kargil conflict was fought for more than two months during May-July (1999) in the Kargil District of Jammu and Kashmir along with the Line of Control (LoC). It was named after 'Operation Vijay' (which was launched by India to flush out the Pakistani intruders) in Kargil. On 26, 1999, India successfully took command of all the high outposts and regained control of all the previously held territories.

Nothing can be of great worth or holy which is the work of builders and mechanics.

~ Zeno, Stoic Philosopher

NEW DIPLOMA COURSES

New Diploma College Approved by A.I.C.T.E. New Delhi for SNIT Adoor. The courses included are Diploma in Artificial Intelligence and Machine Learning; Civil and Environmental; Cyber Forensics and Information Security; Mechatronics; Automation and Robotics.

NEW PROGRAM OR LEVEL COURSES

Sr. No.	Programme	Level	Course(S)	Approved Intake 2020-21	Applied Intake 2021-22
1.	ENGINEERING AND TECHNOLOGY	DIPLOMA	ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING	0	60
2.	ENGINEERING AND TECHNOLOGY	DIPLOMA	CIVIL AND ENVIRONMENTAL ENGINEERING	0	60
3.	ENGINEERING AND TECHNOLOGY	DIPLOMA	CYBER FORENSICS AND INFORMATION SECURITY	0	60
4.	ENGINEERING AND TECHNOLOGY	DIPLOMA	MECHATRONICS	0	60
5.	ENGINEERING AND TECHNOLOGY	DIPLOMA	AUTOMATION AND ROBOTICS	0	60

STUDENTS CORNER

HANEETHA

M2, SECM

MODERN TECHNOLOGIES USED IN CIVIL CONSTRUCTION

Construction is one of the branches of civil engineering that is concerned directly with common people, as everyone wants to have beautiful dwellings. Buildings are built from long ago in history, but the difference is of technology as early buildings were simple and just for the purpose of shelter. With the passage of time, some changes have appeared in construction also and it is all due to the technology that can be defined as practical use of your knowledge. In the beginning, buildings were made from stones and mud, but in recent time, we construct buildings using multiple types of materials including stone, timber, concrete, metals, glass, etc. and now in there is a great demand for some changes to be introduced to build modern buildings with some revolutionary technologies.

WARM BRIDGING

Effective protection material is turning out to be progressively vital all through the development business. Warm transmission through dividers tends to be gone specifically through the building envelope, be it stonework, square or stud edge, to the inside sash, for example, drywall. This procedure is known as "warm crossing over". Aerogel, an innovation created by Nasa for cryogenic protection, is viewed as a standout amongst the best warm protection materials and the US turn off Therma Blok has adjusted it utilizing an exclusive aerogel in a fiberglass network.

AUGMENTED REALITY

Augmented reality is transforming how workers interact with their tasks. It allows workers to analyse problems. They can use it to help with task analysis, building, and repair. There are dozens of applications for augmented reality. Firms are developing these tools for field service and other verticals. Identifying the right solution starts with your business goals.

VIRTUAL REALITY

3D printing is a great way for visualizing new projects and, as we discussed, building itself. Virtual reality has become a part of the preconstruction process itself. It's a low-stakes way to visualize an entire project and make critical changes. Virtual reality tools help prevent problems or disasters before construction begins. It's a great way to increase efficiencies before all the greater investments. It also opens doors to greater creativity during design phases.

FIRE FIGHTING SYSTEMS

A firefighting system is probably the most important of the building services, as its aim is to protect human life and property, strictly in that order.

It consists of three basic parts:

[1] A large store of water in tanks, either underground or on top of the building, called fire storage tanks

[2] A specialised pumping system,

[3] A large network of pipes ending in either hydrants or sprinklers (nearly all buildings require both systems)

FIRE ALARM SYSTEMS

A fire alarm system is distinct from a firefighting system in that it has no connection to the firefighting system; its purpose is to inform all humans in the building that there is a fire via an audible alarm, so that they may evacuate the building.

DO YOU KNOW ??

➢ **DENSITY OF MATERIALS**

- Bricks: 1600 – 1920 kg/m^3
- Concrete block: 1920 kg/ m^3
- Reinforced concrete: 2310 – 2700 kg/ m^3

➢ **Curing time of RCC Members for different types of cement**

- Super Sulphate cement: 7 days
- Ordinary Portland cement OPC: 10 days
- Minerals & Admixture added cement: 14 days

HAPPY BIRTHDAY

SANTIAGO CALATRAVA (28TH JULY, 1951)

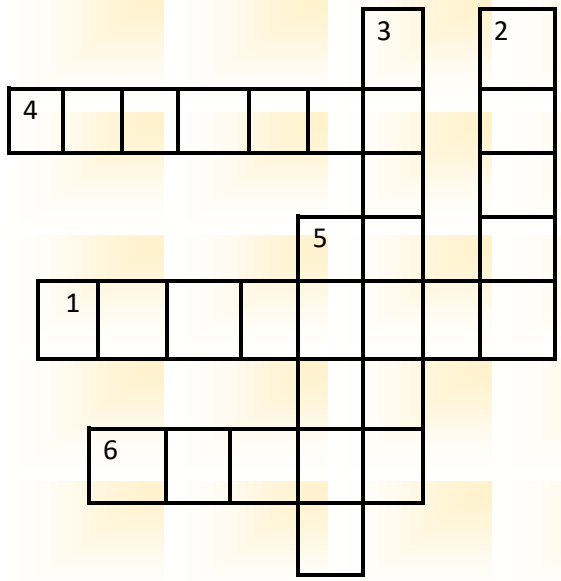
Santiago is a Spanish architect, structural engineer, sculptor and painter. He had his primary and secondary schooling in Valencia, and, beginning in 1957, studied drawing and painting at the School of Applied Art. Back in Valencia, he discovered a book about the architecture of Le Corbusier, which persuaded him that he could be both an artist and an architect. He enrolled in the Higher School of Architecture at the Polytechnic University of Valencia. He received his diploma as an architect and then did higher studies in urbanism. In 1975 he enrolled in the Swiss Federal Institute of Technology in Zürich, Switzerland for a second degree in civil engineering.

He is particularly known for his bridges supported by single leaning pylons, and his railway stations, stadiums, and museums, whose sculptural forms often resemble living organisms. His best-known works include the Olympic Sports Complex of Athens, the Milwaukee Art Museum, the Turning Torso tower in Malmö, Sweden, the World Trade Centre Transportation Hub in New York City, the Auditorio de Tenerife in Santa Cruz de Tenerife, the Margaret Hunt Hill Bridge in Dallas, Texas, and his largest project, the City of Arts and Sciences and Opera House in his birthplace, Valencia.

He is awarded with European Prize for Architecture, AIA Gold Medal, IStructE Gold Medal, Eugene McDermott Award, Prince of Asturias and Award Auguste Perret Prize.

SANDRA MARIAM SIMON
M2 SECM

LET'S FIND OUT



HORIZONTAL:

1) Longest of chain lines used in survey connecting main stations ……
4) Rule used to balance traverse when angular measurements are more precise than linear……
6) Large scale representation of small area……

VERTICAL:

2) Principles of survey is to work from ……to part
3) Points whose elevation is to be determined …….
5) Type of surveying where curvature of earth is not considered……

"STUFF YOUR EYES WITH WONDER" –RAY BRADBURY

PETRONAS TOWER

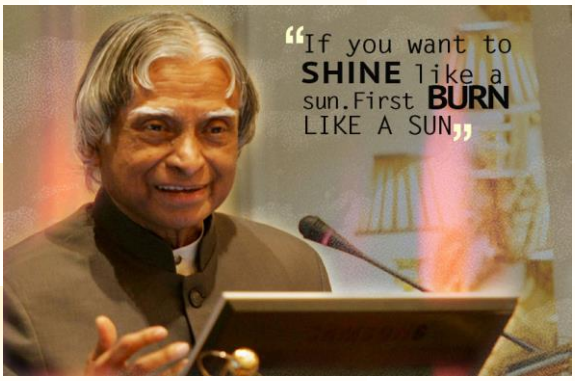
RISHNA K RAMAN
M2 SECM

The Petronas Towers, or the Petronas Twin Towers are twin skyscrapers in Kuala Lumpur, Malaysia. They are a major landmark of Kuala Lumpur, along with nearby Kuala Lumpur Tower, and are visible in many places across the city. The Petronas Towers got the name because the main occupant of the building is PETRONAS (Petroliam Nasional Berhad), a major Malaysian oil and gas company.

The Twin Towers, built to house the headquarters of Petronas, the national petroleum company of Malaysia, were designed by the Argentine-born American architect Cesar Pelli; they were completed in 1998. When it was built in 1998, the 88-storey Petronas Towers held the top record for the tallest building in the world at a staggering height of 1,483 feet. As such, the Petronas Towers still stands today as the tallest twin towers in the world. The headquarters of Petronas, Malaysia's oil and gas power company, the twin towers are also home to Suria KLCC, one of Malaysia's best shopping malls; Aquaria KLCC, Malaysia's finest oceanarium; and KLCC Park, an urban curated green-lung project for Kuala Lumpur's health.

The towers feature a double decker skybridge connecting the two towers on the 41st and 42nd floors, which is the highest 2-story bridge in the world. It is not attached to the main structure, but is instead designed to slide in and out of the towers to prevent it from breaking, as the towers sway several feet in towards and away from each other during high winds. It also provides some structural support to the towers in these occasions. The bridge is 170 m (558 ft) above the ground and 58.4 m (192 ft) long, weighing 750 tons. The same floor is also known as the podium, since visitors going to higher levels have to change elevators here.

IMPORTANT DAYS



July 27, 2015

Dr APJ Abdul Kalam Death Anniversary

He is known as the Missile Man of India, former president APJ Abdul Kalam was the country's most lovable and endearing President. Kalam, who served as the 11th President of India from 2002 and 2007, passed away on 27 July, 2015, while delivering a speech at the Indian Institute of Management (IIM), Shillong. He was 83. An aerospace scientist, Kalam will always be remembered for his pivotal role in India's Pokhran-II nuclear tests that took place in 1998. It was the first test since the original nuclear test that was undertaken by the country in the year 1974.

CONGRATULATIONS (M3)

Answers

Last month Sudoku

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

Cross Words

7R	E	3S	I	N				
		H						
5Q	U	A	R	T	2Z			
		L			I			
				4T				
	1C	E	M	E	N	T		
				A	C			
6B	L	A	C	K				

LET'S CHECK IT OUT

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

HAPPY BIRTHDAY

Sruthi S (S2)

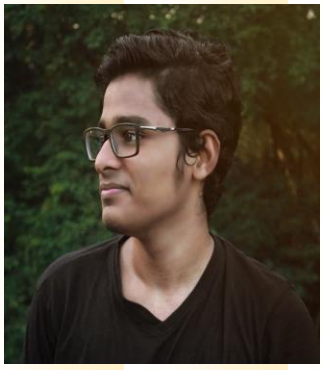
10th July

Babisha B (S2)

12th July

Anjali M (S2)

20th July



Abhijith K S (S2)

1st July

Ashwathy Thejas (S2)

4th July

Divya P S (S8)

1st July

Sona Riyas (S4)

20th July

Amal S (S4)

17th July

Sreelekshmi S (S4)

17th July

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. Jisha 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.....
"Lateral load Analysis of concrete infilled braced spun pile with friction dampers"
authored by **Ms. Jisha S and Ms. Lekshmipriya R**

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. Meenu Prasad** 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.....
"AN EXPERIMENTAL STUDY ON MECHANICAL AND COMPOSITE PROPERTIES OF COCONUT SHELL CONCRETE"
authored by **Ms. Meenu Prasad and Ms. Riyana M.S**

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

Dr. K. Krishnakumar
Principal

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

ADMISSION STARTED…