

DEPARTMENT OF CIVIL ENGINEERING  
CEPTA  
NEWSLETTER



## INAUGURATION OF CEPTA ACTIVITIES 2022-2023

The inaugural ceremony 'CEPTA Activities 2022-23' was conducted on 3<sup>rd</sup> November at the ABSN Hall from 10:00 am to 12:30 pm. The welcome speech was given by Abhirami Babu (S5 CE), former Joint Secretary of CEPTA (2021-22). The inauguration was done by Mr. Antony Varghese, Managing Director of Planners Group, Chengannassery, Kottayam, whose presence as the chief guest made the event more glorious.

*"A good scientist is a person with original ideas. A good engineer is a person who makes a design that works with as few original ideas as possible."*

- Freeman Dyson

The programme was honoured by the presence of Principal Dr. Shaji Mohan B., Vice Principal Dr. M.D. Sreekumar, Academic Chairman Dr. Keshav Mohan, Academic Coordinator Prof. N. Radhakrishnan Nair and Head of Civil Engineering department Ms. Riyana M.S. Also, the alumni of both M.Tech. and B.Tech. attended the programme. The report on the various activities conducted in the year 2021-22 was presented by Sreehari R. (S7 CE), former Secretary of CEPTA (2021-22).



Mr. Antony Varghese released 'KRITHI'- Civil Engineering department Magazine 2021-2022 in the function. The students who attained excellence in the university exams of B.Tech. and M.Tech. of the past academic semester and the toppers of both M.Tech. and B.Tech. courses were awarded mementos. The mementos were given by the chief guest, Mr. Antony Varghese. The best project from B.Tech. and MTech. were also awarded the memento.



# KERALAPPIRAVI CELEBRATION

Kerala, the southernmost state of India, was formed on November 1<sup>st</sup>, 1956, long after Indian Independence on 15<sup>th</sup> August 1947. Therefore, November 1<sup>st</sup> is known as Keralappiravi Dinam, which means 'Birthday of Kerala'. Malayalees around the world celebrate 'Keralappiravi'. This 60<sup>th</sup> Keralappiravi Dinam was celebrated at SNIT on 1<sup>st</sup> November 2022. The celebration commenced with a dance performance by the students of the MBA and Polytechnic departments. The students from Polytechnique presented a Malayalam song that praised the beauty of Kerala. Following the events, a quiz competition based on the arts and culture of Kerala was conducted. The programme ended with a 'Malayalee-Manga' competition. All the students gathered in the central courtyard and witnessed the programme.



**കേരളപ്പിറവി ആഘോഷം**

അടുർ: ശ്രീനാരായണ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കേരളപ്പിറവി ആഘോഷിച്ചു. വിദ്യാർത്ഥികളുടെ വിവിധ കലാപരിപാടികളും, ധാരാളം മലയാളം, മലയാള ശ്രീമാൻ മലയാള മത്സരങ്ങളും സംഘടിപ്പിച്ചു. ബി.ടെക്, എം. ടെക് എം.ബി.എ, ഡിപ്ലോമ വിദ്യാർത്ഥികളും അധ്യാപകരും പങ്കെടുത്തു.

**AGSTER**  
from - Maragalam Daily Patharavithita - November 05, 2022  
കേരളപ്പിറവി ആഘോഷം

# SEMINAR ON CAREER OPPORTUNITIES AFTER CIVIL ENGINEERING

CEPTA in association with Civilianz, Trivandrum, organized a seminar on the topic 'Career opportunities after Civil Engineering' on 7<sup>th</sup> November 2022. Assistant Professor of Civilianz, Mr. Gokul Ramanan was the speaker. He detailed the wide job opportunities for Civil Engineers both in Government and private sectors.

SREE NARAYANA INSTITUTE OF TECHNOLOGY  
ADDOOR  
DEPARTMENT OF CIVIL ENGINEERING  
TOPIC - CAREER OPPORTUNITIES AFTER CIVIL ENGINEERING




**SPEAKER: GOKUL RAMANAN**  
ASSISTANT PROFESSOR  
CIVILIANZ

VENUE: CIVIL SEMINAR HALL  
07/11/2022  
2pm

ORGANIZED BY:  
CIVILIANZ  
CEPTA

# CHILDREN'S DAY CELEBRATION BY CEPTA

Children's Day is celebrated on 14<sup>th</sup> November, every year, on the birthday of the First Prime Minister of India, Pandit Jawaharlal Nehru. 'Rakshana' –the charity division of CEPTA- Civil Engineering Association of SNIT Adoor celebrated Children's day at Jeevamatha Karunya Bhavan, Adoor, as a part of the association programme. Students shared some happy moments with the people at Jeevamatha Karunya Bhavan and gave gifts to them. As a part of the celebration, children at Karunya Bhavan performed a lot of programmes and the day become a memorable one.



5R44+WC9, Theppupara Rd, Kerala 691556, India

Latitude: 9.157638333333333° Longitude: 76.80521°  
Local 03:56:12 PM Altitude 10.87 meters  
GMT 10:26:12 AM Monday, 14.11.2022



# TALENT DAY

SNIT organized a Talent Day Competition on 25<sup>th</sup> November 2022. The programme was successfully held at the Mini Auditorium of the college. The events started at 2:30 pm on Friday and continued till the evening. Competitions like light music, mimicry, and dance performance have been conducted as per the schedule. Also, a painting exhibition was arranged where the young Engineers of SNIT exhibited their beautiful paintings.



# HUNGER-FREE CAMPUS

Chairman of SNIT, Mr. K. Sadanandan inaugurated 'The Hunger Free Campus Project', the project is to deliver food to the people of SNIT and patients and bystanders of Adoor Government Hospital, on the 26<sup>th</sup> of every month. The project was launched as a part of the birthday celebration of our beloved chairman. The Managing Director Er. Abyin Ambadiyil, Academic Chairman Dr. Keshav Mohan, Academic Coordinator Prof. N. Radhakrishnan Nair, and Vice Principal Dr. M.D. Sreekumar attended the programme.



# ANTI-DRUG CAMPAIGN

SNIT held an anti-drug campaign to sensitize students against drug abuse and the negatives of its usage. The campaign was held on 29<sup>th</sup> November 2022 at 12:45 pm. The campaign was inaugurated by Managing Director Mr. Abyin Ambadiyil in the presence of Principle Dr. Shaji Mohan B., HoDs of different departments, faculty members, and students.



madhyamam Wed, 30 November 2022 https://epaper.madhyamam.com/c/71010300

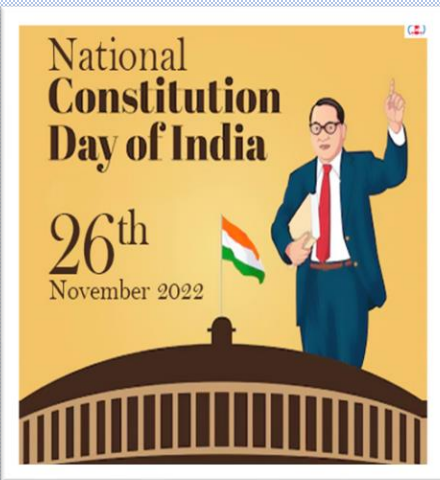
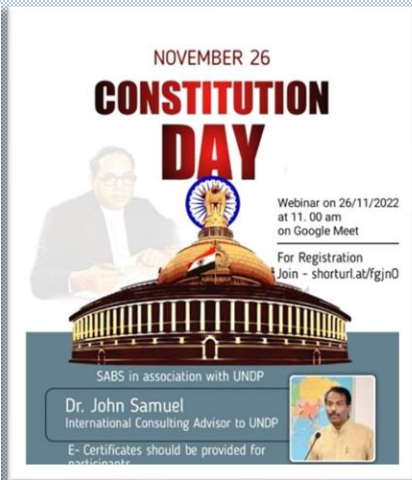
# NAAC ORIENTATION PROGRAMME



A NAAC orientation programme was conducted on 19<sup>th</sup> November 2022. The speaker was Dr. R. Raveendran, former Principal, S.N. College, Kollam. He delivered a detailed lecture on the aspects of IQAC activities, and the documentation process to improve the quality of the teaching-learning process. All the faculty members of the Civil Engineering department attended the programme, successfully.

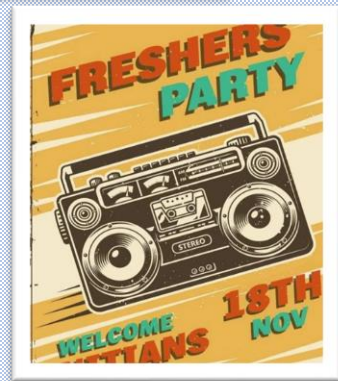
# CONSTITUTION DAY 2022

November 26<sup>th</sup> is the day when the country adopted the 'Constitution of India' in 1949. The Government of India, in 2015, declared 26<sup>th</sup> November as Constitution Day. SNIT Celebrated 73<sup>rd</sup> National Constitution Day on 26<sup>th</sup> November. Dr. John Samuel, International Consulting Advisor to UNDP, conducted a Webinar on 26<sup>th</sup> November at 11.00 am on Google Meet.



# FRESHER'S DAY

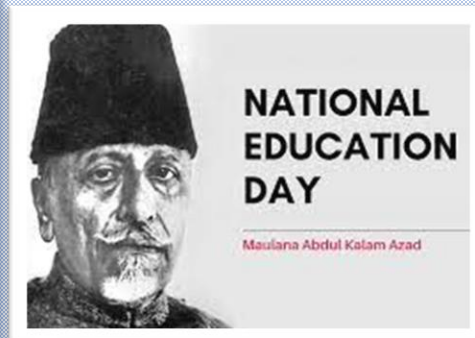
Fresher's Day was conducted on 18<sup>th</sup> November. The programme was filled with excitement, joy, music, and happiness. Freshers performed by singing, dancing, and acting. Seniors too have joined them. Following the programme, a DJ party was also arranged for the students.



# IMPORTANT DAYS

## 11<sup>th</sup> November- National Education Day

It is observed on November 11th to commemorate the birth anniversary of India's first Education Minister, Maulana Abul Kalam Azad. From 1947 to 1958, the Minister was also the first education minister of independent India. According to Maulana Abul Kalam Azad, schools are the laboratories that produce future citizens of the country. He is the person behind IITs and various other institutes in India. Now let us see in detail about Maulana Abul Kalam Azad, his early life, family, and works.



## 14<sup>th</sup> November- Children's Day

Every year on November 14th, India celebrates Children's Day. This is also known as Bal Divas. On this day, people are made aware of children's rights, care, and education. This day commemorates the birth anniversary of India's first Prime Minister, Jawaharlal Nehru. The purpose of the day is to recognize Kalam's contributions to education and students.



# BIRTHDAY

## NIRANJAN DAS GULHATI

(Born on: 04-11-1904)

Niranjan Das Gulhati was an Indian Civil Engineer, water resources consultant, and writer, known for his mediation in the Indus Waters Treaty of 1960 between India and Pakistan. His contributions were reported in the formation of the International Commission on Irrigation and Drainage (ICID), a non-governmental organization that promotes the transfer of water-sharing technologies between countries. An Alumnus of the Thomason College of Engineering (present-day Indian Institute of Technology, Roorkee), he was associated with the World Bank, International Development Association, and United Nations Economic and Social Commission for Asia and the Pacific. He was the author of two books, Indus Waters Treaty: An Exercise in International Mediation and Data Of High Dams In India. The Government of India awarded him the third highest civilian honour the Padma Bhushan, in 1961, for his contributions to society. His life story has been documented in a book, The Untiring Indian - Life story of Mr. N. D. Gulhati - A Visionary Water Resources Engineer, published in 2011.

# BIRTHDAY CELEBRATION



We celebrated our chairman's birthday on 26<sup>th</sup> November 2022 at the SNIT campus. The Chairman, Mr. K. Sadanandan, received a gratitude of love from Dr. M.D. Sreekumar (Vice Principal) and Prof. N. Radhakrishnan Nair (Academic Coordinator).

# A SUCCESSFUL YEAR AT SNIT



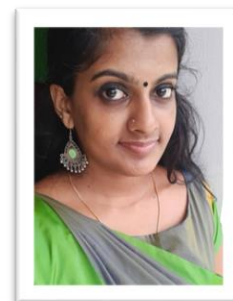
Dr. Shaji Mohan B., the Principal of SNIT receiving a gratitude of love from Managing Director, Er. Abyin Ambadiyil.

Dr. Shaji Mohan B., the Principal of SNIT, and Dr. M.D. Sreekumar, Vice Principal of SNIT completed one successful year at SNIT Adoor.



Dr. M.D. Sreekumar, the Vice Principal of SNIT receiving a a gratitude of love from Managing Director, Er. Abyin Ambadiyil.

## ULTRA-HIGH-PERFORMANCE CONCRETE (UHPC)



Athira Surendran  
S3 SECM

Being the most popular manmade material in the world, concrete is the basic building material that will continue to be in demand far into the future. Superior qualities of concrete such as strength and durability, the ability for it to be placed in many forms, and its low price have made concrete to be considered the most famous and important material in the construction industry. Concrete is primarily used for its strong compressive strength. Ultra-High-Performance Concrete (UHPC), also known as Reactive Powder Concrete (RPC) is a cementitious concrete material that has a minimum compressive strength of 150MPa with specified durability and toughness requirements. It exhibits excellent rheological behaviour that includes workability, self-placing, and self-densifying properties. The specified requirements are achieved by including fibers in it. Fibers included in UHPC shall be carbon steel, PVA, glass, carbon, or a combination of these fibers.

It is developed by lowering the water-to-cement ratio, along with optimized packing of fine and ultrafine particles, proper size distribution as well as shape and texture quality. It is formulated by combining Portland cement, supplementary cementitious materials, reactive powders, limestone and quartz flour, fine sand, high-range water reducers, and water. The use of fine materials for the matrix provides a dense, smooth surface. It is a special class of high-performance fiber-reinforced cementitious composites. It has a pseudo-tensile elastic-plastic or strain-hardening behaviour. The ductile behaviour of UHPC is a first for concrete, with the capacity to deform and support flexural and tensile loads, even after initial cracking. UHPC construction is simplified by eliminating the need for reinforcing steel in some applications. The matrix is very dense and has a minimal disconnected pore structure resulting in low permeability. The material's unique combination of superior properties and design flexibilities facilitates to the creation of attractive shapes. Overall, this material offers solutions with advantages such as speed of construction, improved aesthetics, superior durability, and impermeability against corrosion, abrasion, and impact.

# STUDENT'S CORNER

## Marsa Al Arab



Sreehari R.  
S7 CE



Marsa Al Arab is a top mega project in Dubai, consisting of two islands on both sides of the Burj Al Arab hotel. The highly-awaited destination will include lavish residential villas, as well as tourist and entertainment spots. Moreover, one of the islands will be a tourist attraction with numerous interesting destinations. While the other one is going to be home to luxurious villas and an outstanding marina for its residents. It is going to be one of the significant new real estate projects in Dubai, offering an ideal residential experience. With no doubt, Marsa Al Arab Dubai will be one of the most sought-after destinations in the emirate.

# KNOWLEDGE CORNER

## DID YOU KNOW?

- The second largest concrete dam in the world in terms of the volume of concrete used in its construction- Sardar Sarovar Dam
- The world's biggest cricket stadium- Narendra Modi Stadium in the Motera area of Ahmedabad
- The world's tallest statue- The statue of Unity
- The tallest dam in India- Tehri Dam
- The longest underground face-to-face tunnel in the world- Alimineti Madhva Reddy Irrigation project

## SELF-COMPACTING CONCRETE (SCC)



Sneha J.  
S3 SECM

Self-compacting concrete (SCC) also called Self Consolidating Concrete or Rheodynamic concrete is an innovative concrete that does not require vibration for placing and compaction. It is able to flow under its own weight, completely filling formwork and achieving full compaction, even in the presence of congested reinforcement. The hardened concrete is dense, homogeneous, and has at least engineering properties at par with and durability as traditional vibrated concrete. The principle behind Self Compacting Concrete (SCC) is that the settlement of aggregates is related to the viscosity of the fresh concrete.

SCC can be produced using the same ingredients as that normal concrete. However, a closer tolerance is required to ensure strict control of workability characteristics. The proportioning of SCC mixes is much more scientific than that of conventional concrete mixes. SCC mix requires high powder content, a lesser quantity of coarse aggregate, high range superplasticizer, and VMA (Viscosity Modifying Agent) to give stability and fluidity to the concrete mix. The workability of SCC is the equilibrium of fluidity, deformability, filling ability, and resistance to segregation.

Self-compacting concrete is considered a breakthrough in concrete technology due to its improved performance and working environment. It has wide applications from thin elements to bulk robust structures. SCC can be taken as the greatest technological advancement and most revolutionary development in concrete technology over the years. SCC is the concrete of the future, as it will be replacing normal concrete due to its distinct advantages.

With the tremendous development of the construction of megastructures, the world over, the demand for self-compacting concrete (SCC) applications is increasing. Many sites have the problems of congestion of reinforcement in principle structural members. The design issues are compounded due to the high risk of the seismic zone, vulnerability to cyclonic storms, and huge capacity addition of the plants to a very large scale. SCC has become the only choice in such difficult site environments. Ideally, the development of concrete mix where placing and compaction have minimal dependence on the Standard of workmanship available on a particular site should improve the true quality of the concrete in the final structure, and hence its durability. This was an important driving force behind the development of self-compacting concrete (SCC).

NOVEMBER 2022

## WORD SCRAMBLE

CLUE: Disciplines of Civil Engineering

1. TACRCLTRUIAEH
2. SNCUIONROCTT
3. IEONMTRNANELV
4. RAWET ESRRUCOES
5. RCAUTTSRLU
6. YLITTUI
7. YNVUSIERG
8. ORIATPSRTNONAT
9. AENTOLHIECCG
10. CSCMNEHIA

## SUDOKU

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

## WORDSEARCH (October 2022) ANSWERS

- SURFACE TENSION
- BENDING
- IMPEDANCE
- SHEAR
- DEFLECTION
- CRACKS
- BUCKLING
- BOGUES
- THEODOLITE
- FORMWORK
- DUMPY LEVEL
- PAINTING
- FRACTURE
- FOOTINGS
- DUCTILITY
- RESERVOIR
- DENSITY
- HYDROLOGY
- DISPLACEMENT
- GEOLOGY
- COHESION
- CONCRETE
- SLUDGE
- ENGINEER
- TANGENT
- FLANGE
- SURVEYING
- TORSION
- FLEXURE
- MODULUS

## SUDOKU: October 2022

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

# ALUMNI CORNER



**VAISAKH RAMESH**

B.Tech. Civil Engineering (2014-18 batch)

[vaisakhramesh96@gmail.com](mailto:vaisakhramesh96@gmail.com)

+918589859750

## 3 Years' Experience

- ✓ Working as Engineer at Bhavani Erectors Pvt. Ltd., Kollam



**KEERTHI KRISHNAN**

B.Tech. Civil Engineering (2016-20 batch)

[keerthikrishnan.gk@gmail.com](mailto:keerthikrishnan.gk@gmail.com)

+917034526011

## 2 Years' Experience

- ✓ Working as Junior Planning & Design Engineer at Bikigai build Pvt. Ltd., Trivandrum

# ACHIEVEMENTS



Gregory Cheriyan and Sivakrishna R. of S7 CE was awarded memento for the amazing art in relation to the anti-drug campaign.

# CHIT-CHAT WITH ALUMNI



The few that held SNIT close to heart. Joined SNIT as a student and now switched roles to become the favorite teacher of SNIT. Ms. Geethu M.S. (2011-14 batch), Ms. Anju Thulasi (2013-17 batch), and Ms. Preena Praveen (2014-18 batch) are shining examples of quality education and everything the campus has got to offer. You can educate people but you can't instill the emotion of love in them for something. Words have flowed with utmost sincerity while sharing their love and life at SNIT as a 'student-teacher'.

# INDUSTRIAL VISIT



'INDUSTRIAL VISIT'  
CIVIL ENGINEERING  
2019-2022 BATCH

# BIRTHDAY BASH



RESHMA  
S3 CE  
14<sup>th</sup> NOVEMBER



ATHIRA SURENDRAN  
S3 SECM  
15<sup>th</sup> NOVEMBER



ADHIL U.  
S5 CE  
16<sup>th</sup> NOVEMBER



SIVAKRISHNA R.  
S7 CE  
26<sup>th</sup> NOVEMBER

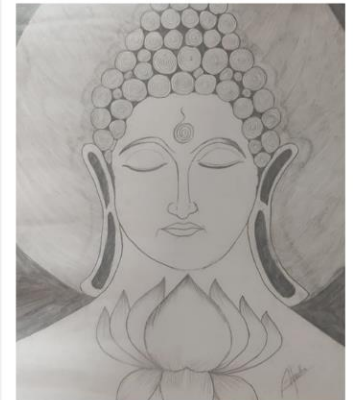
# ARTIST'S CORNER



Art: Painting  
Artists: Nafiya Salim (S5 CE)



Art: Painting  
Artists: Aswathy Thejus (S5 CE)



Art: Pencil Drawing  
Artists: Anandhu Mohan (S5 CE)



Art: Wall Painting  
Artists: Gregory Cherian and  
Sivakrishna R. (S7 CE)



**CEPTA**



**OFFICE BEARERS 2022-2023**

**PRESIDENT**



**ABHILASH M**  
S7 CE

**VICE PRESIDENT**



**ASHNA S ALI**  
S7 CE

**SECRETARY**



**SUJITHRAMOL K A**  
S5 CE

**JOINT SECRETARY**



**AJMAL N**  
S3 CE

**TREASURER**



**ATHIRA SURENDRAN**  
M3 M.TECH

**NEWSLETTER -TECHNICAL  
KRITHI COORDINATOR**



**SNEHA J**  
M3 M.TECH

**MAGAZINE COORDINATOR**



**ANSAL NOUSHAD**  
S7 CE

**TECHNICAL COORDINATORS**



**KARISHMA K**  
M3 M.TECH



**ARYA SANTHOSH**  
M1.MTECH



**JASNA FATHIMA**  
S7 CE



**ABHIJITH V**  
S5 CE



**INORAJITH U B**  
S3CE



**DEVIPRIYA P**  
S1,CE

## DEPARTMENT OF CIVIL ENGINEERING



### STUDENT CENTRIC ACTIVITIES

- NATIONAL CONFERENCE & STUDENT PAPER PUBLICATIONS (NCATES)
- DEPARTMENT ASSOCIATION (CEPTA)
- DEPARTMENT MONTHLY NEWSLETTER (CEPTA TECHNICAL KRITHI)
- CEPTA CONSULTANCY
- YEARLY TECHFEST (ABRAXAS)
- INDUSTRIAL INTERNSHIPS
- DEPARTMENT YOUTUBE CHANNEL (CIVIL MANTRA)
- MOU WITH LEADING INDUSTRIES

### EXCELLENT ACADEMICS

- DEDICATED & EXPERIENCED FACULTY MEMBERS
- EXQUISITE INFRASTRUCTURE & WELL EQUIPPED LABORATORIES
- INDUSTRIAL TRAINING & VISIT
- ONE-ON-ONE MENTORING SYSTEMS
- ADD-ON COURSES

HIGH  
QUALITY  
EDUCATION



M.TECH.  
100% RESULT

BEST  
PLACEMENT

### PROGRAMMES OFFERED:

- B.Tech. in Civil Engineering
- M.Tech. in Structural Engineering & Construction Management

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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](mailto:ceptatechnicalkrithi@gmail.com)

Entries are invited from students  
**before the 25<sup>th</sup>** of every month

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

Mail Id:

[ceptatechnicalkrithi@gmail.com](mailto:ceptatechnicalkrithi@gmail.com)

## TECHNICAL KRITHI e-Newsletter

Owned by: **CEPTA Civil Engineering Association, SNIT Adoor**  
Chief Editor: **Ms. Lekshmi Priya R., Asst. Professor, Dept. of Civil Engineering, SNIT Adoor**  
Student Editor: **Sneha J., Student, M.Tech., 2021-23 batch**  
Associate Editor: **Athira Surendran, Student, M.Tech., 2021-23 batch**  
Special Contributors: **Students of M.Tech. SECM**

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