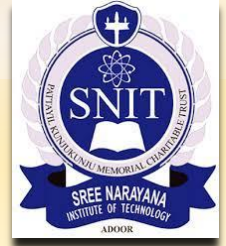


NEWSLETTER



“TECHNICAL KRITHI”

e-Newsletter
DECEMBER 2021

INDUCTION PROGRAM

SNIT Adoor organized a welcome function for first year students of B. Tech 2021-2025 batch and M. tech 2021-2023 batch on 6th December 2021. The college management whole heartily welcomed freshers to their beautiful and bright college life. All the first year students with their parents and HODs and teachers of all department attended the meeting.

“COLLEGE IS A JOURNEY UNLIKE ANY OTHER- BEAUTIFUL AND BAD, EXCITING AND EXHAUSTING, UNIQUE AND UGLY, HAPPY AND HORRENDOUS, CHARMING AND CUTE, LOVELY AND LONELY”.

GOOD LUCK

“To create, one must first question everything.”

– Eileen Gray



LET'S REUNITE

As a part of 10th Anniversary of SNIT, a gathering of faculty members “LET'S REUNITE” were conducted. Department of Civil Engineering Former P G Dean, Dr. P G BHASKARAN NAIR and Assistant professors Anju V, Arun H J, Afi R Sudhakar and Lab instructors Anoop, Remya also become a part of this function and also they shared their experience and beautiful memories. College presented a token of appreciation to Dr. P G BHASKARAN NAIR and faculty members for their great service in SNIT.

“Reunions are always fraught with awkward tensions the necessity to account for oneself; the attempt to find, through memories, an ember of the old emotions.”



STUDENTS CORNER...

CELL-FILLED PAVEMENTS

Geocells, one type of geosynthetics manufactured in a form of three-dimensional interconnected cells, have been reported to effectively provide lateral confinement to infill material to increase the modulus and bearing capacity of base courses. Most studies so far have been focused on the behavior of geocell-reinforced bases under static loading. Geocells used for pavement applications are subjected to repeated loading. The main objective of the present study is to investigate the behaviour of pavements constructed by filling the cells with cement concrete, recycled asphalt, local soil laid over locally available aggregate such as murrum (laterite) and kankar (alluvial) mixed with lime fly ash.

Here we use a formwork of cell of thin recycled plastic sheet of HDPE (High Density Poly Ethylene) or LDPE (Low Density Poly Ethylene) or NPA (Novel Polymeric Alloy) to construct “cell filled pavements”. They are also called “geoweb”. This system offers design flexibility for unpaved roadways surfaces, base stabilization, road shoulders as well as a

Geoweb is a three-dimensional polymeric strip welded together to form a cellular confinement system which can be filled with granular material such as sand, recycled Asphalt and local soil . This prevents from movement of infill materials and distributes load over wide area with increased stiffness and strength of the payment layer. Geoweb function as cast-in-situ interlocked block payments. The cell filled payments are cost effective as compared with conventional payments particularly in locations with the scarcity of aggregates.



K JAYAKRISHNAN

S7 CE

DO YOU KNOW

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Components of Timber

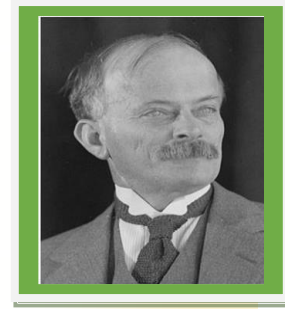
- Pith
- Heart wood
- Sap wood
- Cambium Layer
- Inner bark
- Outer bark
- Medullary rays
- Annular rings

Processing of Timber

1. Felling of Trees
2. Seasoning of Timber
3. Conversion of Timber
4. Preservation of Timber



HAPPY BIRTHDAY



JOHN BRADFIELD

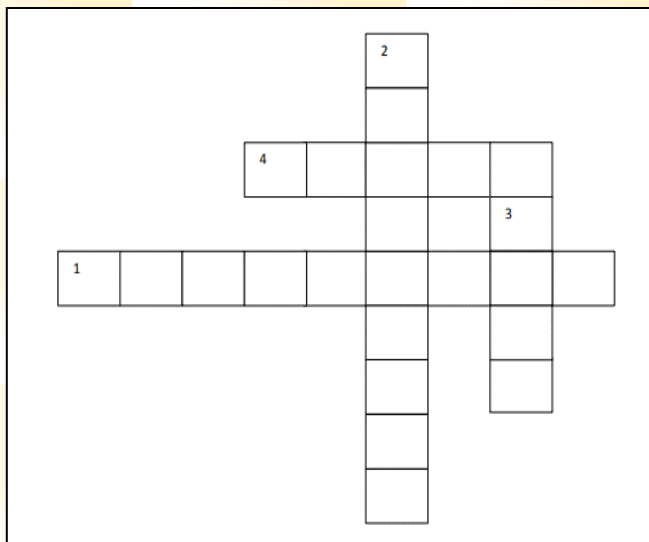
John Job Crew Bradfield was an Australian engineer born on 26 December 1867 best known as the chief proponent of the Sydney Harbour Bridge, of which he oversaw both the design and construction. Bradfield began his education at the North Ipswich State School before winning a scholarship to Ipswich Grammar School. He was the dux of his school and won the chemistry medal at the senior public examination in 1885. The colonial government awarded him an exhibition to attend the University of Sydney, as Queensland did not have a university of its own at the time. He enrolled at St Andrew's College and graduated as a Bachelor of Engineering (BEng) in 1889, winning the University Medal. Bradfield became an associate of the Institution of Civil Engineers in 1893 and returned to the University of Sydney to complete a Master of Engineering (MEng) degree, where he won first-class honours and was again awarded the University Medal. He was a founder of the Sydney University Engineering Society and later served two terms as its president.

He was a founder of the Sydney University Engineering Society and later served two terms as its president.

He worked for the New South Wales Department of Public Works from 1891 to 1933. Other notable projects with which he was associated include the Cataract Dam (completed 1907), the Burrinjuck Dam (completed 1928), and Brisbane's Story Bridge (completed 1940). The Harbour Bridge formed only one component of the City Circle, Bradfield's grand scheme for the railways of central Sydney, a modified version of which was completed after his death. He was awarded Queensland Institute of Engineers lifetime achievement award in 2007.

SANDRA MARIAM
SIMON
M3, SECM

LET'S FIND OUT



HORIZONTAL:

- 1) Stone consists of calcium carbonate formed at the bottom of shallow lakes and seas
- 4) A fine-grained metamorphic rock that is formed when sedimentary rock such as shale

VERTICAL:

- 2) A metamorphic rock which is formed from pure quartz sandstone as a result of heating and pressure
- 3) Formed of parallel bands of chalcedony in alternating colours

GOTTHARD BASE TUNNEL



The Gotthard Base Tunnel is a railway tunnel through the Alps in Switzerland. It opened on 1 June 2016 and full service began on 11 December 2016. With a route length of 57.09 km, it is the world's longest railway and deepest traffic tunnel and the first flat, low-level route through the Alps. It lies at the heart of the Gotthard axis and constitutes the third tunnel connecting the cantons of Uri and Ticino, after the Gotthard Tunnel and the Gotthard Road Tunnel.

The link consists of two single-track tunnels connecting Erstfeld with Bodio (Ticino) and passing below Sedrun (Grisons). It is part of the New Railway Link through the Alps (NRLA) project, which also includes the Ceneri Base Tunnel further south and the Lötschberg Base Tunnel on the other main north–south axis. It is referred to as a "base tunnel" since it bypasses most of the existing Gotthard railway line, a winding mountain route opened in 1882 across the Saint-Gotthard Massif, which was operating at its capacity before the opening of the GBT. The new base tunnel establishes a direct route usable by high-speed rail and heavy freight trains.

The main purpose of the Gotthard Base Tunnel is to increase local transport capacity through the Alpine barrier, especially for freight, notably on the Rotterdam–Basel–Genoa corridor, and more specifically to shift freight volumes from trucks to freight trains. This both significantly reduces the danger of fatal road crashes involving trucks, and reduces the environmental damage caused by heavy trucks. The tunnel provides a faster connection between the canton of Ticino and the rest of Switzerland, as well as between northern and southern Europe, cutting the Basel/Zürich–Lugano–Milan journey time for passenger trains by one hour

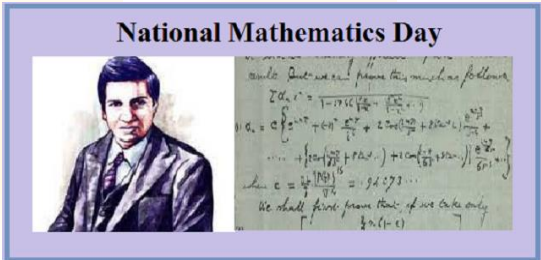
IMPORTANT DAYS



DECEMBER 4 INDIAN NAVY DAY

Indian Navy played a crucial role during the Indo-Pakistan war of 1971 and started Operation Trident. To commemorate the attack and to accomplish the role of the Naval force every year, Navy Day is observed on December 4. The Indian Navy is a well balanced three-dimensional force, capable of operating above, on and under the surface of the oceans and safeguard our national interests. Its objective is also to improve its circumstances in the Indian Ocean Zone.

The theme of 2021 Indian Navy Day is '**Swarnim Vijay Varsh**' signifying 50 years of India's victory in the Indo-Pakistan war that took place in 1971.



National Mathematics Day

DECEMBER 22 NATIONAL MATHEMATICS DAY

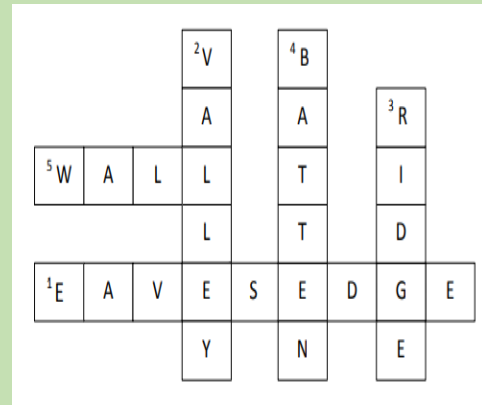
It is observed on 22 December every year to mark the birth anniversary of legendary Indian Mathematician, Srinivasa Ramanujan. The day recognises and celebrates his works. On this day, the genius mathematician Srinivasa Ramanujan was born in 1887 to a Tamil Brahmin Iyengar family at Erode, Tamil Nadu. The main objective behind the celebration is to raise awareness among people about the importance of mathematics for the development of humanity. We can't ignore that several initiatives are taken to motivate, enthuse, and inculcate a positive attitude towards learning mathematics among the younger generation of the country.

Answers

Last month Sudoku

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 |

Cross Words



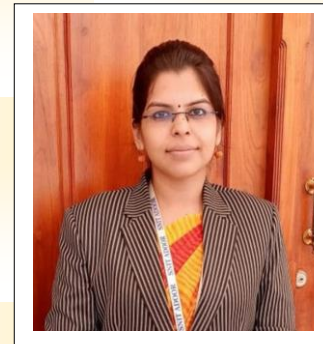
LET'S CHECK IT OUT

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

HAPPY BIRTHDAY



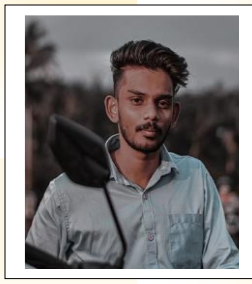
Ms. Rajalakshmi P
Dec 6th



Ms. Reshma C
Dec 30th



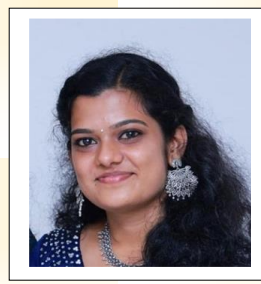
Sidhara Santhosh, S3
1st December



Ajay VA, S3
11th December



Yedhu Jayakumar
S3, 12th December



Nandana PS, S3
14th December



Nandhana Siju, S3
21st December



Akhila Prasad, S3
23rd December



Shafana Nizam, S5
21st December



Sreehari R, S5
19th December



Bhagya Lekshmi, S5
15th December



Abhilash M, S5
25th December



Jithin Jyothi, S7
December 5



Hasna Jalal, S7
December 27



Varsha V, S1
December 14



Feba Paul, M3
27 th Dec



Ashil S Kumar, M3
24 th Dec

ALUMNI CORNER



Gayatri CM
B. TECH CIVIL (2012-2016
BATCH)
SNIT ADOOR

5 Years of Experience

- ✚ Jalanidhi water supply project- junior engineer
- ✚ Flowmax water - project engineer
- ✚ Rsp constructions- project engineer
- ✚ AJ associates- Draftsman cum site supervisor
- ✚ Currently working in hugs India limited as estimation engineer

FAMILY

Father- Manikandan
Mother - Anitha

TRAVELOGUE



S5, CIVIL



We the fifth semester students of Sree Narayana Institute of Technology, Adoor from the DEPARTMENT OF CIVIL ENGINEERING organized five days of industrial visit from 27 Nov to 1 Dec 2021. The first visit was to Banasura sagar dam the largest earth dam in India, constructed in the Banasura Lake, Wayanad. It helped us to gain knowledge in various aspects related to structure of a dam and its details. The second visit was to Qcon Blocks Private Limited, Manufacturer of clay bricks, cement block & concrete block in Mysore, Karnataka. It helped a lot in understanding the manufacturing process related to civil engineering. The third visit was to the water treatment plant in Wonderla the most popular water theme park in India. It also added much more to our knowledge and to understand the field better. We are greatly indebted to all those who helped us to make this trip precious, memorable and joyous.

We express our sincere thanks to Mr Shaji Mohan, The Principal, Sree Narayana Institute of Technology, Adoor, for his throughout support. We sincerely thanks to Ms. Riyana M S, Head of the Department, Civil Engineering, Ms. Gopika A S, Assistant professor, Mr. Jinu Darsh Assistant professor, Mr. Amal Anand, Adjunct Faculty and Ms. Parvathy Lab Assistant for providing us with all facilities for the completion of this work. We returned back to college at 10pm ,1 Dec 2021 after successfully completing our Industrial Visit



SHIVANI A B

S7 CIVIL

S7, CIVIL



It was our industrial visit for the first time since the beginning of the covid pandemic. Sree Narayana Institute of Technology, Adoor had planned a five day industrial visit for seventh semester civil engineering students from 5 Dec to 10 Dec 2021 to Mysore, Chikmagalur, Belur and Wayanad. In Mysore we went to Tippu Summer Palace, Tipu Fort, Triveni.

Sangamam which all gives us an historical explanation to our knowledge and then we went to Brindavan Garden which is undeniably one of the best terrace gardens in the world with its illuminated fountains, botanical park, extensive varieties of plants and fulfilled boating for everyone. In Chikmagalur to fulfill more adventures to our trip, jeep trucking starts. In the jeep we went to see the beauty of Chikmagalur. On the next day we went to Belur, there were full of activities like kayaking, rafting and banana ride which was a fearful experience to some and at the same time a memorable event. As civil engineering students we went to Yagachi dam to know more about the hydraulic structure and then to Belur temple, which was a wonderful view because of the construction and the atmosphere.

On the last day we went to Wayanad to see the sunrise at early morning at the Kuruambalakotta and then went to Banasurasagar Dam and studied the detailed structure. After that we moved to Menamuttu falls and Pookode lake and on the next day we came back to college. There are many memorable moments in every man's life. However, a few of them get indelibly etched in our memories. This was one of our most memorable moments associated with a wonderful industrial visit. For making our last experience a wonderful and delightful one, we had a great support from our faculty members HOD of Civil Engineering Department Ms. Riyana M S, Assistant Professor Ms. Chaithra S, Ms. Amritha, Mr. Brijiths.

ACHIEVEMENTS



ACHIEVEMENTS



KARISHMA KATHIRESWARI M1 SECM

KARISHMA KATHIRESWARI won **INDIA BOOK OF RECORDS** for writing all the 28 Indian states, with their respective capitals, on an eggshell. Using a blue gel pen, she wrote the names of all the 28 states, with their capitals, on a raw eggshell (of height 5cm and width 4cm) in 6 minutes and 5 seconds.

WORKSHOP ATTENDED



One Day National Colloquium on 'Concrete Construction for Coastal Conditions' conducted on 17th December, 2021, jointly organized by 3- ICI Centre's - Kochi , Calicut & Trivandrum- in association with IIT-Chennai & IIT- Palghat.

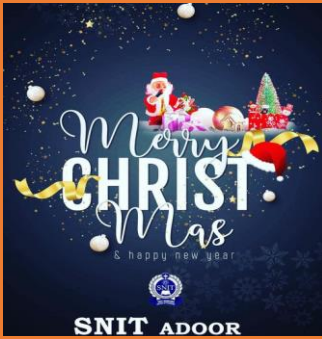
VANITHA ARTICLE

Ashna, Devika, Gopika, Ashwathy, Vrindha, Jesna Fathima

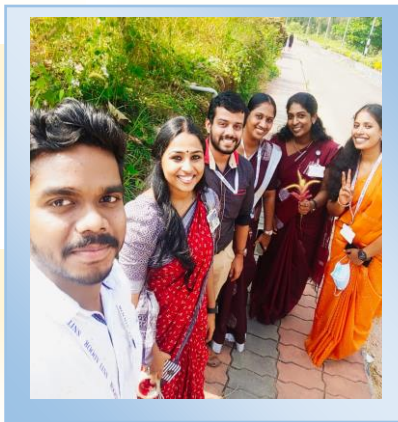
Published an article in **Vanitha** magazine sharing their lockdown hobbies and experiences. They explained how online platforms and the online web series can be a stress better relief and boosting their language and technical skills.



CHRISTMAS CELEBRATION



SNIT Adoor celebrated Christmas
on 23rd December 2021



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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

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

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THANK YOU